

MV electrical network management  
*Gestion des réseaux électriques MT*

# PowerLogic™ T300

MV substation control unit  
*Unité de contrôle pour les réseaux de distribution*

## Database

Appendix to the User Manual  
*Annexe au Manuel Utilisateur*



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## 1 Introduction

This document gives the list of data points supported by all the T300 modules. These points are automatically generated by the T300 Generator configuration tool.

Each point is defined by:

- A type of SCADA object,
- The first software version or variable from which the variable has been introduced,
- Its belonging to a generation option in the T300 generator.

Note that the correspondence between the data type and the SCADA objects is defined in the T300 Quick start user guide.

Note also that this list of data points can also be consulted in the RTU configuration interface of Easergy Builder software (in CoreDb tab).

**Note:** in the tables here after, "SCADA Object Type" correspond to the basic object type from a SCADA view: e.g. single or double digital input or outputs, analogue inputs/outputs or counters.

**Note 2:** Some variables have been scaled to harmonize the database format between all T300 modules. Scaling allows you to scale a variable from a T300 module having its own format. This "scaling" carried out in CoreDB must not be modified for the proper functioning of the unit.

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*Ce document donne la liste des données supportées par tous les modules T300.*

*Ces points sont automatiquement générés par l'outil de génération de configuration T300 Generator.*

*Chaque point (ou variable) est défini par :*

- *Un type d'objet SCADA,*
- *La première version logicielle à partir de laquelle la variable a été introduite,*
- *L'appartenance de la variable à une option de génération dans le T300 Generator.*

*A noter que la correspondance entre le type de donnée et les objets SCADA sont définis dans le Guide de démarrage T300.*

*A noter également que cette base de données peut être consultée dans l'interface de configuration RTU du logiciel Easergy Builder (onglet CoreDb).*

**Remarque :** dans les tableaux ci- après, "SCADA Object Type" correspond au type d'objet basique d'une vue SCADA, par exemple des entrées digitales simples ou doubles ou des sorties, des entrées / sorties analogiques ou des compteurs.

**Remarques 2 :** certaines variables ont été mises à l'échelle afin d'harmoniser le format de la base de données entre tous les modules T300. Le "scaling" permet de mettre à l'échelle une variable issue d'un module T300 ayant son propre format. Ce "scaling" réalisé dans CoreDB ne doit pas être modifié pour le bon fonctionnement de l'équipement.

## 2 Condition monitoring

Condition monitoring (CM) and Zigbee modem related variables have a specific format that describes their emplacement and role in the installation. In this document, they are presented in a generic format, using keys \$ZONE\$, \$LOC\$ and \$ID\$ in the point name and description.

These keys are automatically replaced by texts from the following table, depending on the condition monitoring options selected in T300 generator.

*Les variables associées au condition monitoring (CM) et au modem Zigbee ont un format spécifique qui intègre leur position et leur rôle dans l'installation.*

*Dans ce document, elles sont présentées avec un format générique, utilisant les clés \$ZONE\$, \$LOC\$ et \$ID\$ dans le nom de la donnée et sa description.*

*Ces clés sont automatiquement remplacées par les textes issus du tableau suivant, selon les options condition monitoring choisies dans T300 Generator.*

Key	Label in point name	Description	Meaning
\$ZONE\$	SUB	Substation	Condition monitoring zone : Substation
	FUN	Functional unit	Condition monitoring zone : Switch gear functional unit
	CUB	Cubicle	Condition monitoring zone : Cubicle
	PTR	Transformer	Condition monitoring zone : Power transformer
	LVS	LV Switchboard	Condition monitoring zone : LV Switchboard
\$LOC\$	ENV	Environmental	Environmental monitoring
	BUS	Busbar	Thermal sensor location : Busbar
	CAB1	Cable 1	Thermal sensor location : Cable 1
	CAB2	Cable 2	Thermal sensor location : Cable 2
	CABU	Cable up	Thermal sensor location : Cable up
	CABD	Cable down	Thermal sensor location : Cable down
	MV	MV connection	Thermal sensor location : Transformer MV connection
	LV	LV connection	Thermal sensor location : Transformer LV connection
	IN	Incomer	Thermal sensor location : LV switchboard incomer
	FD	Feeder	Thermal sensor location : LV switchboard feeder
	FLOOD	Flood	Condition monitoring digital input sensor : flood
	PRESLO	Gas pressure low	Condition monitoring digital input sensor : gas pressure low
	PRESVLO	Gas pressure very low	Condition monitoring digital input sensor : gas pressure very low
	FUSE	Blown fuse	Condition monitoring digital input sensor : blown fuse
	SUBDOOR	Substation door	Condition monitoring digital input sensor : substation door
RTUDOOR	RTU door	Condition monitoring digital input sensor : RTU cabinet door	
\$ID\$	0	N.A.	Corresponds to \$LOC\$ = BUS for RMU, to \$LOC\$ = LV for Transformer thermal monitoring
	1	N.A.	Corresponds to \$LOC\$ = CAB1 for RMU, to \$LOC\$ = MV for Transformer thermal monitoring
	2	N.A.	Corresponds to \$LOC\$ = CAB2 for RMU

### 3 List of data points in CoreDb / Liste de données dans CoreDb

#### 3.1 HU250

HU250						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V0.5	LLN0_CfgHealth_stVal_Fail	Head unit configuration error	Digital Input	0 = No configuration error 1 = Configuration error
	Base	V0.5	LLN0_BinHealth_stVal_Fail	Head unit error	Digital Input	0 = No error 1 = The HU250 is faulty
	Base	V0.5	LLN0_Health_stVal_Fail	General health error	Digital Input	0 = No error 1 = Error in PLC or HU250 or Modules
	Base	V0.5	LLN0_Health_stVal_Warn	General health warning	Digital Input	0 = No warning 1 = Warning in PLC or HU250 or Modules
	Base	V0.5	LLN0_ComHealth_stVal_Fail	Internal communication error	Digital input	0 = No communication error with tango modules 1 = A communication is faulty with one or many modules
	Base	V0.5	GenGAPC1_Health_stVal_Warn	PLC warning	Digital Input	0 = No warning 1 = A PLC signal is not mapped in CoreDb
	Base	V0.5	GenGAPC1_Health_stVal_Fail	PLC error	Digital Input	0 = No warning 1 = PLC program is stopped
	Base	V0.5	LTMS1_TmChErr_stVal	Time synchronization failure source 1	Digital Input	0 = No primary synchronization failure 1 = Fail in primary synchronization source
	Base	V0.5	LTMS2_TmChErr_stVal	Time synchronization failure source 2	Digital Input	0 = No secondary synchronization failure 1 = Fail in secondary synchronization source
	Wireless	V0.5	WiFiLCCH1_ChLiv_stVal	WIFI ON/OFF status	Digital Input	0 = Wi-Fi is off 1 = Wi-Fi is on
	Wireless	V0.5	WiFiLCCH1_Health_stVal_Fail	WIFI health error	Digital Input	0 = No error 1 = Error connecting to WIFI
	Wireless	V0.5	WiFiLCCH1_Health_stVal_Warn	WIFI health warning	Digital Input	0 = No warning 1 = WIFI connection in progress
	Base	V0.5	LLN0_Loc_stVal	System local / remote status	Digital Input	0 = T300 is in remote 1 = T300 is in local
	Base	V0.5	SysGAPC1_AutoLocked_stVal	System automation locked	Digital Input	0 = T300 automation is not locked 1 = T300 automation is locked
	Base	V0.5	SysGAPC1_Op_general	System automation operated	Digital Input	0 = Automation has not operated 1 = A T300 automation has operated
	Base	V0.5	SysGAPC1_Auto_stVal	System automation operation status (ON/OFF)	Digital Input	0 = T300 automation is OFF 1 = T300 automation is ON
	Base	V0.5	SysCILO1_OpStr_stVal	System switch command in progress	Digital Input	0 = No switch command in progress 1 = A switch command is in progress
	Base	V0.5	SysCILO1_OpTmAlm_stVal	System switch command failure	Digital Input	0 = No switch command failure 1 = Last switch command failed
	Base	V0.5	HPrsISAF1_Alm_stVal	Head Unit Human presence detected (button pressed)	Digital Input	0 = No human presence detected 1 = Human presence detected
Base	V0.5	FeaGGIO1_Ind1_stVal	Digital input 1	Digital Input	0 = Digital input 1 is off 1 = Digital input 1 is on	

HU250						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V0.5	FeaGGIO1_Ind2_stVal	Digital input 2	Digital Input	0 = Digital input 2 is off 1 = Digital input 2 is on
	Base	V0.5	FeaGGIO1_Ind3_stVal	Digital input 3	Digital Input	0 = Digital input 3 is off 1 = Digital input 3 is on
	Base	V0.5	FeaGGIO1_Ind4_stVal	Digital input 4	Digital Input	0 = digital input 4 is off 1 = Digital input 4 is on
	Base	V0.5	AcSVPI1_Prs_general	AC voltage presence - Digital input 5	Digital Input	0 = Digital input 5 is off 1 = Digital input 5 is on
	Base	V0.5	DoorISAF1_Alm_stVal	Door open - Digital input 6	Digital Input	0 = Digital input 6 is off 1 = Digital input 6 is on
	Base	V0.5	FeaGGIO1_Ind7_stVal	Digital input 7	Digital Input	0 = Digital input 7 is off 1 = Digital input 7 is on
	Base	V0.5	FeaGGIO1_Ind8_stVal	Digital input 8	Digital Input	0 = Digital input 8 is off 1 = Digital input 8 is on
	Base	V0.5	FeaGGIO1_SPSSO1_stVal	Digital output 1 status	Digital Input	0 = Digital output 1 is opened 1 = Digital output 2 is closed
	Base	V0.5	FeaGGIO1_SPSSO2_stVal	Digital output 2 status	Digital Input	0 = Digital output 1 is opened 1 = Digital output 2 is closed
	Base	V0.7	ComLPHD1_PhyPrs_stVal	Slot 1 physical modem detection status	Digital Input	0 = No K7 modem on slot 1 1 = A K7 modem has been detected on slot 1
	Base	V0.7	ComLPHD2_PhyPrs_stVal	Slot 2 physical modem detection status	Digital Input	0 = No K7 modem on slot 2 1 = A K7 modem has been detected on slot 2
	Base	V0.7	ComLPHD1_PhyHealth_Fail	Slot 1 physical modem health error	Digital Input	0 = No modem or channel configuration error on slot 1 1 = A modem or a channel is configured on slot1 and the expected K7 is not present or not the good one
	Base	V0.7	ComLPHD2_PhyHealth_Fail	Slot 2 physical modem health error	Digital Input	0 = No modem or channel configuration error on slot 2 1 = A modem or a channel is configured on slot 2 and the expected K7 is not present or not the good one
	Wireless	V0.7	MdmLCCH1_ChCfg_stVal	Slot 1 modem dial-up configured	Digital Input	0 = No modem dial-up is configured on slot 1 1 = A modem dial-up is configured on slot 1
	Wireless	V0.7	MdmLCCH2_ChCfg_stVal	Slot 2 modem dial-up configured	Digital Input	0 = No modem dial-up is configured on slot 2 1 = A modem dial-up is configured on slot 2
	Wireless	V0.7	MdmLCCH1_ChErr_stVal_Fail	Slot 1 modem dial-up health error	Digital Input	0 = No error on slot1 modem dial-up 1 = An error has occurred on slot1 modem dial-up
	Wireless	V0.7	MdmLCCH2_ChErr_stVal_Fail	Slot 2 modem dial-up health error	Digital Input	0 = No error on slot2 modem dial-up 1 = An error has occurred on slot2 modem dial-up
	Wireless	V0.7	MdmLCCH1_ChRssi_stVal	Slot 1 modem received signal strength Indication	Counter	0 = -113 dBm or less 1 = -111 dBm 2..30 = -109 ... -53 dBm 31 = -51 dBm or greater 99 = not known or not detectable

HU250						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Wireless	V0.7	MdmLCCH2_ChRssi_stVal	Slot 2 modem received signal strength Indication	Counter	0 = -113 dBm or less 1 = -111 dBm 2..30 = -109 ... -53 dBm 31 = -51 dBm or greater 99 = not known or not detectable
	Wireless	V0.7	MdmLCCH1_ChRat_stVal	Slot 1 modem radio network type	Counter	0 = GPRS 1 = EDGE 2 = 3G 3 = HSDPA 4 = 4G
	Wireless	V0.7	MdmLCCH2_ChRat_stVal	Slot 2 modem radio network type	Counter	0 = GPRS 1 = EDGE 2 = 3G 3 = HSDPA 4 = 4G
	Wireless	V0.7	MdmLCCH1_ChLiv_stVal	Slot 1 ppp over modem interface status	Digital Input	0 = PPP interface on slot 1 modem dial-up is down 1 = PPP interface on slot 1 modem dial-up is up
	Wireless	V0.7	MdmLCCH2_ChLiv_stVal	Slot 2 ppp over modem interface status	Digital Input	0 = PPP interface on slot 2 modem dial-up on is down 1 = PPP interface on slot 2 modem dial-up on is up
	Base	V0.7	HealthSTMP1_Health_Fail	Temperature sensor error	Digital Input	0 = Sensor is connected and working properly 1 = Sensor is disconnected or is faulty
	Base	V0.7	SysIHMI1_RstS_stVal	Reset button, short pulse - reset FPI and automation	Digital Input	0->1 = A local automation and FPI reset has been executed
	Base	V0.7	SysIHMI1_Auto_stVal	Automation ON/OFF button	Digital Input	0 = Automation has been set to OFF locally 1 = Automation has been set to ON locally
	Base	V0.7	SysIHMI1_Led1_stVal	Led 1 status (indicates AC power on standard T300)	DB Digital Input	Correspond to led 1 status depending customization
	Base	V0.7	SysIHMI1_Led2_stVal	Led 2 status (indicates 24/48V motor supply on standard T300)	DB Digital Input	Correspond to led 2 status depending customization
	Base	V0.7	SysIHMI1_Led3_stVal	Led 3 status (indicates 12V communications supply on standard T300)	DB Digital Input	Correspond to led 3 status depending customization
	Base	V0.7	SysIHMI1_Led4_stVal	Led 4 status (indicates 12V communications supply fault on standard T300)	DB Digital Input	Correspond to led 4 status depending customization
	Base	V0.7	SysIHMI1_Led5_stVal	Led 5 status (indicates battery fault on standard T300)	DB Digital Input	Correspond to led 5 status depending customization
	Base	V0.7	SysIHMI1_Led6_stVal	Led 6 status (Generic Led 1)	DB Digital Input	Correspond to led 6 status depending customization
	Base	V0.7	SysIHMI1_Led7_stVal	Led 7 status (Generic Led 2)	DB Digital Input	Correspond to led 7 status depending customization
	Base	V0.7	SysIHMI1_Led8_stVal	Led 8 status (Generic Led 3)	DB Digital Input	Correspond to led 8 status depending customization
	Base	V0.7	FaultIHMI1_Lamp1_stVal	Lamp 1 status	Digital Input	Correspond to Lamp Green status depending customization
	Base	V0.7	FaultIHMI1_Lamp2_stVal	Lamp 2 status	Digital Input	Correspond to Lamp Red status depending customization
Base	V1.3	GpsLCCH1_Health_stVal_Fail	GPS health error	Digital Input	0 = No warning 1 = Error with GPS connection	



HU250						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	ATS	V1.5	AATS1_ActSrc_stVal	Active Source (1, 2, 0: In-transit)	DB Digital Input	
	ATS	V1.5	AATS1_AutoIntSt_stVal	ATS internal state	Analogue Input	
	ATS	V1.5	AATS1_AutoIntRes_stVal	ATS internal result	Analogue Input	
	ATS	V1.5	AATS1_RetryCnt_stVal	Number of source transfer attempts	Counter	
	ATS	V1.5	AATS1_RetCnt_stVal	Number of retries for return to normal	Counter	
	ATS	V1.5	AATS1_PosInv_stVal	ATS Initial switch position invalid	Digital Input	
	ATS	V1.5	AATS1_WaitVPrs_stVal	ATS Waiting for voltage presence	Digital Input	
	ATS	V1.5	AATS1_Rdy_stVal	ATS Ready (waiting for voltage absence)	Digital Input	
	ATS	V1.5	AATS1_TfrChk_stVal	ATS checking transfer conditions	Digital Input	
	ATS	V1.5	AATS1_RetChk_stVal	ATS checking return conditions	Digital Input	
	ATS	V1.5	AATS1_TfrStr_stVal	ATS transfer started	Digital Input	
	ATS	V1.5	AATS1_SeqStr_stVal	ATS sequence started	Digital Input	
	ATS	V1.5	AATS1_BlK_stVal	ATS blocked (conditions not satisfied)	Digital Input	
	ATS	V1.5	AATS1_BlKOpTfr_stVal	ATS switch operation blocked	Digital Input	
	Base	V1.5	LLN0_Health_stVal	Module health enumeration	Enumeration	1 = Ok, 2=Warning, 3=Error
	CMBase	V1.6	CMGEN_CMHealth	Summary condition monitoring status	Enumeration	
	CMDigitalInput	V1.6	CM\$ZONE\$SFOD1_Ind	\$ZONE\$ Flood input status	Digital Input	
	CMDigitalInput	V1.6	CM\$ZONE\$SFOD1_CMHealth	\$ZONE\$ Flood condition monitoring status.	Enumeration	
	CMDigitalInput	V1.6	CM\$ZONE\$SIMG1_PresLo	\$ZONE\$ Pressure low status	Digital Input	
	CMDigitalInput	V1.6	CM\$ZONE\$SIMG1_PresLoHlth	\$ZONE\$ Pressure low condition monitoring status.	Enumeration	
	CMDigitalInput	V1.6	CM\$ZONE\$SIMG2_PresVLo	\$ZONE\$ Pressure very low status	Digital Input	
	CMDigitalInput	V1.6	CM\$ZONE\$SIMG2_PresVLoHlth	\$ZONE\$ Pressure very low condition monitoring status.	Enumeration	
	CMDigitalInput	V1.6	CM\$ZONE\$SPSE1_GteSt	\$ZONE\$ Substation door status	Digital Input	
	CMDigitalInput	V1.6	CM\$ZONE\$SPSE1_CMHealth	\$ZONE\$ Substation door condition monitoring status.	Enumeration	
	CMDigitalInput	V1.6	CM\$ZONE\$SPSE2_GteSt	\$ZONE\$ RTU door status	Digital Input	
	CMDigitalInput	V1.6	CM\$ZONE\$SPSE2_CMHealth	\$ZONE\$ RTU door condition monitoring status.	Enumeration	
	CMDigitalInput	V1.6	CM\$ZONE\$XFUS1_FuSt	\$ZONE\$ Blown fuse status	Digital Input	
	CMDigitalInput	V1.6	CM\$ZONE\$XFUS1_CMHealth	\$ZONE\$ Blown fuse condition monitoring status.	Enumeration	
	CMEnvironment	V1.6	CM\$ZONE\$_MMET1_CMHealth	\$ZONE\$ environmental condition monitoring status.	Enumeration	
	CMEnvironment	V1.6	CM\$ZONE\$_MMET1_MntLast	\$ZONE\$ Date of last maintenance	Date	
	CMEnvironment	V1.6	CM\$ZONE\$_MMET1_MntNext	\$ZONE\$ Date of next maintenance	Date	
	CMEnvironment	V1.6	CM\$ZONE\$_MMET1_HumCnt	\$ZONE\$ Number of days with high humidity [0 - 5]	Counter	

HU250						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	CM\Environment	V1.6	CM\$ZONE\$_MMET1_CdsLev	\$ZONE\$ Condensation Level [0 - 3]	Counter	
	CM\Environment	V1.6	CM\$ZONE\$_MMET1_HumADay	\$ZONE\$ High humidity for 24 hours alarm	Digital Input	
	CM\Environment	V1.6	CM\$ZONE\$_MMET1_HumACnt	\$ZONE\$ High humidity for 5 days alarm	Digital Input	
	CM\Environment	V1.6	CM\$ZONE\$_MMET1_TmpAlm	\$ZONE\$ High temperature alarm	Digital Input	
	CM\Environment	V1.6	CM\$ZONE\$_MMET1_CdsAlm	\$ZONE\$ Condensation presence alarm (cold point temperature less than dew point)	Digital Input	
	CM\Thermal	V1.6	CM\$ZONE\$_STMP\$ID\$_CMHealth	\$ZONE\$ \$LOC\$ Thermal condition monitoring status.	Enumeration	
	CM\Thermal	V1.6	CM\$ZONE\$_STMP\$ID\$_TmpAPhA	\$ZONE\$ \$LOC\$ Temperature alarm in phase A.	Enumeration	
	CM\Thermal	V1.6	CM\$ZONE\$_STMP\$ID\$_TmpAPhB	\$ZONE\$ \$LOC\$ Temperature alarm in phase B.	Enumeration	
	CM\Thermal	V1.6	CM\$ZONE\$_STMP\$ID\$_TmpAPhC	\$ZONE\$ \$LOC\$ Temperature alarm in phase C.	Enumeration	
	CM\Thermal	V1.6	CM\$ZONE\$_STMP\$ID\$_TmpADsc	\$ZONE\$ \$LOC\$ Temperature discrepancy alarm	Enumeration	
	CM\Zone	V1.6	CM\$ZONE\$_CMHealth	\$ZONE\$ summary condition monitoring status	Enumeration	
	ATS	V2.8	AATS1_Rdy_stVal	ATS Ready (waiting for voltage absence)	Digital Input	
	ATS	V2.8	AATS1_SeqStr_stVal	ATS sequence started	Digital Input	
	Base	V2.8	LLN0_ActSG_stVal	System active settings group	Analogue Input	1 or 2
Base	V2.8	LLN0_EditSG_stVal	System setting group for edits	Analogue Input	0 means none, 1 or 2	

NOTE: The following status signals related to Wi-Fi are not available in the V2.8.2+ without Wireless and in the V2.9+ without Wireless software:

Point name/ Nom de la donnée	Point description/ Description de la donnée
WiFiLCCH1_ChLiv_stVal	WIFI ON/OFF status
WiFiLCCH1_Health_stVal_Fail	WIFI health error
WiFiLCCH1_Health_stVal_Warn	WIFI health warning
MdmLCCH1_ChCfg_stVal	Slot 1 modem dial-up configured
MdmLCCH2_ChCfg_stVal	Slot 2 modem dial-up configured
MdmLCCH1_ChErr_stVal_Fail	Slot 1 modem dial-up health error
MdmLCCH2_ChErr_stVal_Fail	Slot 2 modem dial-up health error
MdmLCCH1_ChRssi_stVal	Slot 1 modem received signal strength Indication
MdmLCCH2_ChRssi_stVal	Slot 2 modem received signal strength Indication
MdmLCCH1_ChRat_stVal	Slot 1 modem radio network type
MdmLCCH2_ChRat_stVal	Slot 2 modem radio network type
MdmLCCH1_ChLiv_stVal	Slot 1 ppp over modem interface status
MdmLCCH2_ChLiv_stVal	Slot 2 ppp over modem interface status

HU250						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Command	Wireless	V0.5	WiFiLCCH1_ChEna_stVal	WIFI ON/OFF command	Digital Output	0 = Switch off WIFI 1 = Switch on WIFI
	Base	V0.5	SysGAPC1_AutoOn_stVal	System automation operation control enable/disable	Digital Output	0 = Switch off automatism 1 = Switch on automatism
	Base	V0.5	SysGAPC1_AutoReset_stVal	System automation reset command	Digital Output	1 = Reset automation
	Base	V0.5	LLN0_FltIndRs_stVal	System reset FPI indicators (all modules)	Digital Output	1 = Reset T300 FPI indicators
	Base	V0.5	LLN0_FltCntRs_stVal	System reset FPI counters (all modules)	Digital Output	1 = Reset T300 FPI counters
	Base	V0.5	LLN0_EvtCntRs_stVal	System reset power quality event counters (MV modules)	Digital Output	1 = Reset T300 Power quality event counters
	Base	V0.5	LLN0_EnCntRs_stVal	System reset energy counters (MV modules)	Digital Output	1 = Reset T300 Energy counters
	Base	V0.5	FeaGGIO1_SPCSO1_stVal	Digital output 1 command	Digital Output	0 = Open digital output 1 1 = Close digital output 1
	Base	V0.5	FeaGGIO1_SPCSO2_stVal	Digital output 2 command	Digital Output	0 = Open digital output 2 1 = Close digital output 2
	Base	V1.2	LLN0_RsStat_stVal	System reset min/max average current values (MV modules)	Digital Output	1 = Reset T300 Min/Max values
	Base	V1.2	LLN0_EvtCntRs2_stVal	System reset power quality event counters (LV modules)	Digital Output	1 = Reset T300 Power quality event counters
	Base	V1.2	LLN0_EnCntRs2_stVal	System reset energy counters (LV modules)	Digital Output	1 = Reset T300 Energy counters
	Base	V1.2	LLN0_RsStat2_stVal	System reset min/max average current values (LV modules)	Digital Output	1 = Reset T300 Min/Max values
	Base	V1.2	SysIHMI1_TstMod_stVal	System commissioning test (all modules)	Digital Output	1 = Switch on T300 commissioning test
	Base	V2.7	SysIHMI1_TstLed_stVal	System led test (all modules)	Digital Output	1 = Switch on T300 led test
	Base	V2.8	LLN0_SetActSG_stVal	System select active settings group	DB Digital Output	1 or 2
	Base	V2.8	LLN0_SetEditSG_stVal	System select settings group for edit	DB Digital Output	1 or 2
Base	V2.8	LLN0_CnfEdit_stVal	System confirm settings group edits	Digital Output	0 = cancel, 1 = apply	

NOTE: The following status signals related to Wi-Fi are not available in the V2.8.2+ without Wireless and in the V2.9+ without Wireless software:

Point name/ Nom de la donnée	Point description/ Description de la donnée
WiFiLCCH1_ChEna_stVal	WIFI ON/OFF command

HU250										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Rang e Min/ Valeu r min	Rang e Max/ Valeu r Max	Scale/ Echell e	Defaul t/ Par défaut
Analog	Base	V0.5	LPHD1_CpuRate_mag	CPU usage – average for 1 second	Analogue Input	%	0	100		
	Base	V0.5	InstSTMP1_Tmp_mag	Temperature	Analogue Input	°C	-246	408		
	Base	V0.7	AvhSTMP1_Tmp_mag	Temperature: hourly average	Analogue Input	°C				
	CM\Environ ment	V1.6	CM\$ZONE\$_MMET1_MntAP	\$ZONE\$ Reduction factor for maintenance period	Analogue Input					
	CM\Environ ment	V1.6	MMET_EnvHum	Substation relative humidity	Analogue Input	%				
	CM\Thermal	V1.6	CM\$ZONE\$_STMP\$ID\$_TmpD sc	\$ZONE\$ \$LOC\$ Temperature discrepancy between phases	Analogue Input	°C				
	CM\Thermal	V1.6	CM\$ZONE\$_STMP\$ID\$_TmpM axA	\$ZONE\$ \$LOC\$ Temperature maximum value in phase A before setting alarm.	Analogue Input	°C				
	CM\Thermal	V1.6	CM\$ZONE\$_STMP\$ID\$_TmpP MaxA	\$ZONE\$ \$LOC\$ Temperature maximum value in phase A before setting pre-alarm.	Analogue Input	°C				
	CM\Thermal	V1.6	CM\$ZONE\$_STMP\$ID\$_TmpM axB	\$ZONE\$ \$LOC\$ Temperature maximum value in phase B before setting alarm.	Analogue Input	°C				
	CM\Thermal	V1.6	CM\$ZONE\$_STMP\$ID\$_TmpP MaxB	\$ZONE\$ \$LOC\$ Temperature maximum value in phase B before setting pre-alarm.	Analogue Input	°C				
	CM\Thermal	V1.6	CM\$ZONE\$_STMP\$ID\$_TmpM axC	\$ZONE\$ \$LOC\$ Temperature maximum value in phase C before setting alarm.	Analogue Input	°C				
	CM\Thermal	V1.6	CM\$ZONE\$_STMP\$ID\$_TmpP MaxC	\$ZONE\$ \$LOC\$ Temperature maximum value in phase C before setting pre-alarm.	Analogue Input	°C				
	Base	V2.7	LPHD1_AvCpuRate_mag	CPU usage - average for 1 minute		%	0	100		
	Base	V2.8	RtuSTMP1_Tmp_mag	Head unit internal temperature	Analogue Input	°C				
Base	V2.8.1	LPHD1_MemUsed_stVal	Memory usage	Analogue Input	%	0	100			

HU250						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Default/ Par défaut
String	Base	V2.8	LPHD1_PhyNam_model	Device model	String Setting	
	Base	V2.8	LPHD1_PhyNam_vendor	Vendor	String Setting	
	Base	V2.8	LPHD1_PhyNam_hwRev	Hardware revision	String Setting	
	Base	V2.8	LPHD1_PhyNam_swRev	Software revision	String Setting	
	Base	V2.8	LPHD1_PhyNam_serNum	Serial number	String Setting	

3.2 SC150

SC150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V0.4	LLN0_Health_stVal_Fail	Module health error	Digital Input	0 = Ok, 1 = Error
	Base	V0.4	LTMS1_TmSynErr_stVal	Time not synchronized	Digital Input	0 = Ok, 1 = Error
	Base	V0.4	LTMS1_TmChErr_stVal	Time synchronization source failure	Digital Input	0 = Ok, 1 = Error
	Base	V0.4	MainXSWI1_Pos_stVal	Main switch position status	DB Digital Input	0 = intermediate-state, 1 = off, 2 = on, 3 = bad-state
	Base	V0.4	MainCSWI1_Pos_stVal	Main switch filtered position status	DB Digital Input	0 = intermediate-state, 1 = off, 2 = on, 3 = bad-state
	Base	V0.4	MainCSWI1_OpStr_stVal	Switch operation started (command request / in progress)	Digital Input	0 = Inactive, 1 = Command in progress
	Base	V0.4	EarthXSWI1_Pos_stVal	Earth disconnecting switch position	DB Digital Input	0 = intermediate-state, 1 = off, 2 = on, 3 = bad-state
	Base	V0.4	MainSSWI1_OpTmAlm_stVal	Main switchgear control failure	Digital Input	0 = Ok, 1 = last command failed
	Base	V0.4	MainXSWI1_OpCnt_stVal	Main switch, number of operations	Counter	
	Base	V0.4	SimXSWI1_Pos_stVal	Simulated switch position status	DB Digital Input	0 = intermediate-state, 1 = off, 2 = on, 3 = bad-state
	Base	V0.4	FeaGGIO1_Ind5_stVal	Digital input 5 or Switch interlock input	Digital Input	0 = input inactive, 1 = input active
	Base	V0.4	ExtSVPI1_Prs_general	Digital input 6 or Voltage presence	Digital Input	0 = input inactive, 1 = input active
	Base	V0.4	FeaGGIO1_Ind7_stVal	Digital input 7	Digital Input	0 = input inactive, 1 = input active
	Base	V0.4	FeaGGIO1_Ind8_stVal	Digital input 8	Digital Input	0 = input inactive, 1 = input active
	Base	V0.4	HPrsISAF2_Alm_stVal	Module Human presence detected (button pressed)	Digital Input	0 = Ok, 1 = Human presence detected
	Base	V0.4	SvSVPI1_Abs_general	Voltage absence for all phases	Digital Input	0 = all voltages above threshold, 1 = at least 1 phase voltage below threshold
	Base	V0.4	SvSVPI1_Prs_general	Voltage presence for all phases	Digital Input	0 = at least 1 phase voltage below threshold, 1 = all phase voltages above threshold
	Base	V0.4	MvSVPI1_Prs_general	Voltage presence for HMI – at least one phase	Digital Input	Depending on the configuration setting, this is a copy of "Voltage presence from measured values" or "Digital input 6"
	Base	V0.4	SvSCPI1_Abs_general	Current absence for at least one phase	Digital Input	0 = all currents above threshold, 1 = at least 1 phase current below threshold
	Base	V0.4	SvSCPI1_Prs_general	Current presence for all phases	Digital Input	0 = at least 1 current below threshold, 1 = all phase currents above threshold
	Base	V0.4	GenGAPC1_AutoLocked_stVal	Module automation locked	Digital Input	0 = unlocked, 1 = locked
Base	V0.4	GenSFPI1_FltInd_general	General fault indication	Digital Input	0 = normal, 1 = fault detected	
Base	V0.4	GenSFPI1_FltInd_phsA	Fault indication on phase A	Digital Input	0 = normal, 1 = fault detected	
Base	V0.4	GenSFPI1_FltInd_phsB	Fault indication on phase B	Digital Input	0 = normal, 1 = fault detected	

SC150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V0.4	GenSFPI1_FltInd_phcC	Fault indication on phase C	Digital Input	0 = normal, 1 = fault detected
	Base	V0.4	PhSFPI1_FltInd_general	Phase fault detected	Digital Input	0 = normal, 1 = fault detected
	Base	V0.4	EfSFPI1_FltInd_general	Earth fault detected	Digital Input	0 = normal, 1 = fault detected
	Base	V0.4	XcSFPI1_FltInd_general	Cross-country fault detected	Digital Input	0 = normal, 1 = fault detected
	Base	V0.4	GenSFPI1_InsNum_stVal	PTOC instance number for fault	Analogue Input	
	Base	V0.4	CbrRREC1_RecCyc_stVal	Calculated breaker reclose cycle count	Analogue Input	
	Base	V0.4	GenSFPI1_TrFltInd_general	Transient fault	Digital Input	0 = normal, 1 = fault detected
	Base	V0.4	GenSFPI1_SpFltInd_general	Semi-permanent fault	Digital Input	0 = normal, 1 = fault detected
	Base	V0.4	GenSFPI1_PmFltInd_general	Permanent fault	Digital Input	0 = normal, 1 = fault detected
	Base	V0.4	GenSFPI1_TrFltCnt_stVal	General transient fault count	Counter	
	Base	V0.4	GenSFPI1_SpFltCnt_stVal	General semi-permanent fault count	Counter	
	Base	V0.4	GenSFPI1_PmFltCnt_stVal	General permanent fault count	Counter	
	Base	V0.4	PhSFPI1_TrFltCnt_stVal	Phase transient fault count	Counter	
	Base	V0.4	PhSFPI1_SpFltCnt_stVal	Phase semi-permanent fault count	Counter	
	Base	V0.4	PhSFPI1_PmFltCnt_stVal	Phase permanent fault count	Counter	
	Base	V0.4	EfSFPI1_TrFltCnt_stVal	Earth transient fault count	Counter	
	Base	V0.4	EfSFPI1_SpFltCnt_stVal	Earth semi-permanent fault count	Counter	
	Base	V0.4	EfSFPI1_PmFltCnt_stVal	Earth permanent fault count	Counter	
	Base	V0.4	XcSFPI1_SpFltCnt_stVal	Cross-country semi-permanent fault count	Counter	
	Base	V0.4	XcSFPI1_PmFltCnt_stVal	Cross-country permanent fault count	Counter	
	Base	V0.4	LLN0_ActSG_stVal	Active settings group	Analogue Input	1 or 2
	Base	V1.0	PMr_MMxu1_QDetCodA_mag	Quality detail code for current	Analogue Input	0 = Good, 1 = Invalid, 3 = Questionable 11 = Questionable due to out-of-range, 65 = Invalid due to ADC Failure, 515 = Questionable and Inaccurate on startup
	Base	V1.0	PMr_MMxu1_QDetCodV_mag	Quality detail code for voltage	Analogue Input	See Quality detail code for current
	Base	V1.0	LCCH1_ChLiv_stVal	Module communication active status	Digital Input	0 = No communications, 1 = communications ok
	Base	V1.0	LLN0_CfgHealth_stVal_Warn	Configuration health	Digital Input	0 = Ok, 1 = Warning
	Base	V1.0	LPHD1_PhyHealth_stVal_Fail	Module physical health error	Digital Input	0 = Ok, 1 = Error
	Base	V1.0	LTMS2_TmChErr_stVal	1Hz time signal unstable	Digital Input	0 = Ok, 1 = Error
	Base	V1.0	MainSSWI1_OpErrCod_stVal	Main switchgear control failure reason code	Analogue Input	See appendix of T300 user manual
Base	V1.0	GenGAPC1_Op_general	Module automation operated	Digital Input	0 = automation has not operated, 1 = automation has operated	

SC150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V1.0	GenSFPI1_Prs_general	Network presence for FPI functions (voltage or current)	Digital Input	0 = network absent, 1 = network present. Depending on the configuration settings, this is a copy of the voltage presence or current presence inputs
	Base	V1.0	GenSFPI1_FltInd_dirGen_Fwd	Fault direction forward	Digital Input	0 = normal, 1 = fault detected in forward direction
	Base	V1.0	GenSFPI1_FltInd_dirGen_Bwd	Fault direction backward	Digital Input	0 = normal, 1 = fault detected in backward direction
	BC	V1.0	BCPTOV1_Op_general	Broken conductor detection - instance 1	Digital Input	0 = normal, 1 = fault detected
	BC	V1.0	BCPTOV2_Op_general	Broken conductor detection - instance 2	Digital Input	0 = normal, 1 = fault detected
	PQ	V1.0	PQS_QIUB1_VaStr_stVal	Current unbalance variation indication	Digital Input	0 = normal, 1 = current unbalance is greater than threshold
	PQ	V1.0	PQS_QVUB1_VaStr_stVal	Voltage unbalance variation indication	Digital Input	0 = normal, 1 = voltage unbalance is greater than threshold
	PQ	V1.0	PQS_QIUB1_VaEvtCnt_stVal	Current unbalance variation event counter	Counter	
	PQ	V1.0	PQS_QVUB1_VaEvtCnt_stVal	Voltage unbalance variation event counter	Counter	
	PQ	V1.0	PQS_QVVR1_DipStr_stVal	Voltage dip indication	Digital Input	0 = normal, 1 = dip in progress
	PQ	V1.0	PQS_QVVR1_SwlStr_stVal	Voltage swell indication	Digital Input	0 = normal, 1 = swell in progress
	PQ	V1.0	PQS_QVVR1_IntrStr_stVal	Voltage interruption indication	Digital Input	0 = normal, 1 = interruption in progress
	PQ	V1.0	PQS_QVVR1_DipEvtCnt1_stVal	Short duration voltage dip event count, duration less than EvtTmms1	Counter	
	PQ	V1.0	PQS_QVVR1_DipEvtCnt2_stVal	Medium duration voltage dip event count	Counter	
	PQ	V1.0	PQS_QVVR1_DipEvtCnt3_stVal	Long duration voltage dip event count, duration greater than EvtTmms2	Counter	
	PQ	V1.0	PQS_QVVR1_SwlEvtCnt1_stVal	Short duration voltage swell event count, duration less than EvtTmms1	Counter	
	PQ	V1.0	PQS_QVVR1_SwlEvtCnt2_stVal	Medium duration voltage swell event count	Counter	
	PQ	V1.0	PQS_QVVR1_SwlEvtCnt3_stVal	Long duration voltage swell event count, duration greater than EvtTmms2	Counter	
	PQ	V1.0	PQS_QVVR1_IntrEvtCnt1_stVal	Short interruption counter	Counter	
	PQ	V1.0	PQS_QVVR1_IntrEvtCnt2_stVal	Long interruption counter	Counter	
	Base	V1.1	LTMS2_TmSynErr_stVal	1Hz time signal not synchronised (IEEE1588)	Digital Input	0 = Ok, 1 = Error
	Base	V1.1	LTMS2_OfsTmns_stVal	Offset from master clock	Analogue Input	
	Base	V1.1	LCCH2_InOv_stVal	Internal communications sampled values lost	Digital Input	0 = Ok, 1 = Warning
	Base	V1.1	LCCH1_MvOutOv_stVal	Module communications analog measurement events lost	DB Digital Input	0 = Ok, 1 = Warning
	Base	V1.1	LCCH1_SpOutOv_stVal	Module communications status events lost	DB Digital Input	0 = Ok, 1 = Warning
Base	V1.1	LCCH1_CntOutOv_stVal	Module communications counter events lost	DB Digital Input	0 = Ok, 1 = Warning	

SC150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V1.1	GenSFPI1_FltInd_dirGen	Fault direction: none   forward   backward   unknown	DB Digital Input	0 = none, 1 = forward, 2 = backward, 3 = unknown
	Base	V1.1	GenSFPI1_FltInd_dirGen_Unk	Fault direction unknown	Digital Input	0 = normal, 1 = fault detected with unknown direction
	Base	V1.1	FwdSFST1_TrFltCnt_stVal	General transient fault count in forward direction	Counter	
	Base	V1.1	FwdSFST1_SpFltCnt_stVal	General semi-permanent fault count in forward direction	Counter	
	Base	V1.1	FwdSFST1_PmFltCnt_stVal	General permanent fault count in forward direction	Counter	
	Base	V1.1	BwdSFST1_TrFltCnt_stVal	General transient fault count in backward direction	Counter	
	Base	V1.1	BwdSFST1_SpFltCnt_stVal	General semi-permanent fault count in backward direction	Counter	
	Base	V1.1	BwdSFST1_PmFltCnt_stVal	General permanent fault count in backward direction	Counter	
	Base	V1.1	UnkSFST1_TrFltCnt_stVal	General transient fault count in unknown direction	Counter	
	Base	V1.1	UnkSFST1_SpFltCnt_stVal	General semi-permanent fault count in unknown direction	Counter	
Base	V1.1	UnkSFST1_PmFltCnt_stVal	General permanent fault count in unknown direction	Counter		

SC150										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Status	PM	V1.1	PMA_MMXU1_ClcIntvPer_setVal	Calculation Interval Period	Analogue Input for Integer Setting	min	1	60		10

SC150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V1.2	AbsPTUV1_Op_general	Voltage absence indication instance 1	Digital Input	0 = Ok, 1 = at least one voltage below threshold
	Base	V1.2	PrsPTOV1_Op_general	Voltage presence indication instance 1	Digital Input	0 = Ok, 1 = at least one voltage above threshold
	Base	V1.2	AbsPTUV2_Op_general	Voltage absence indication instance 2	Digital Input	0 = Ok, 1 = at least one voltage below threshold
	Base	V1.2	PrsPTOV2_Op_general	Voltage presence indication instance 2	Digital Input	0 = Ok, 1 = at least one voltage above threshold
	Base	V1.2	NeutPTOV1_Op_general	Voltage neutral displacement indication 1	Digital Input	0 = Ok, 1 = neutral voltage above threshold
	Base	V1.2	NeutPTOV2_Op_general	Voltage neutral displacement indication 2	Digital Input	0 = Ok, 1 = neutral voltage above threshold
	Base	V1.2	NeutPTOV3_Op_general	Voltage neutral displacement indication 3	Digital Input	0 = Ok, 1 = neutral voltage above threshold



SC150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V1.3	MainCSWI1_Loc_stVal	Switch controller local / remote	Digital Input	0 = Inactive, 1 = Command in progress
	Base	V1.4	LLN0_Health_stVal_Warn	Module health warning	Digital Input	0 = Ok, 1 = Warning
	Base	V1.4	LLN0_Health_stVal	Module health enumeration	Enumeration	1 = Ok, 2=Warning, 3=Error
	Base	V1.4	MainXSWI1_BlKOpn_stVal	Main switch block open operation - status only	Digital Input	
	Base	V1.4	MainXSWI1_BlKCls_stVal	Main switch block close operation - status only	Digital Input	
	Base	V1.4	SimCSWI1_Pos_stVal	Simulated switch position status feedback	DB Digital Input	0 = intermediate-state, 1 =off, 2= on, 3 = bad-state
	Base	V1.4	FeaGGIO1_Ind6_stVal	Digital input 6	Digital Input	0 = input inactive, 1 = input active
	Base	V1.4	SecGAPC1_SeqStr_stVal	Sectionalizer sequence started	Digital Input	
	Base	V1.4	SecGAPC1_IntrCnt_stVal	Sectionalizer fault interruption count	Counter	
	Base	V1.4	SecGAPC1_Pos_stVal	Switch position requested by sectionalizer	DB Digital Input	
	Base	V1.4	GenSFPI1_FltBlk_stVal	Fault present - block automatic switching	Digital Input	0 = normal, 1 = fault detected
	Base	V1.4	FltPTRC1_Str_general	Fault detection pickup	Digital Input	0 = ignored, 1 = start logging
	Base	V1.4	VPTRC1_Str_general	Voltage event pickup	Digital Input	
	Base	V1.4	RDRE1_RcdStr_stVal	Disturbance recording started	Digital Input	
	PQ	V1.4	PQS_PTRC1_Str_general	Power quality event pickup	Digital Input	
	Base	V1.6	SEfSFPI1_FltInd_general	Sensitive earth fault detected	Digital Input	0 = normal, 1 = fault detected
Base	V1.6	SecGAPC1_LnEna_setVal	Sectionalizer automation enabled status	Digital Input	0= Deactivated, 1 = Activated	

SC150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V2.7	AbsPTUV1_Op_phsA	Voltage absence indication instance 1 phase A	Digital Input	0 = Ok, 1 = voltage below threshold
	Base	V2.7	AbsPTUV1_Op_phsB	Voltage absence indication instance 1 phase B	Digital Input	0 = Ok, 1 = voltage below threshold
	Base	V2.7	AbsPTUV1_Op_phsC	Voltage absence indication instance 1 phase C	Digital Input	0 = Ok, 1 = voltage below threshold
	Base	V2.7	PrsPTOV1_Op_phsA	Voltage presence indication instance 1 phase A	Digital Input	0 = Ok, 1 = voltage above threshold
	Base	V2.7	PrsPTOV1_Op_phsB	Voltage presence indication instance 1 phase B	Digital Input	0 = Ok, 1 = voltage above threshold
	Base	V2.7	PrsPTOV1_Op_phsC	Voltage presence indication instance 1 phase C	Digital Input	0 = Ok, 1 = voltage above threshold
	Base	V2.7	AbsPTUV2_Op_phsA	Voltage absence indication instance 2 phase A	Digital Input	0 = Ok, 1 = voltage below threshold
	Base	V2.7	AbsPTUV2_Op_phsB	Voltage absence indication instance 2 phase B	Digital Input	0 = Ok, 1 = voltage below threshold
	Base	V2.7	AbsPTUV2_Op_phsC	Voltage absence indication instance 2 phase C	Digital Input	0 = Ok, 1 = voltage below threshold
	Base	V2.7	PrsPTOV2_Op_phsA	Voltage presence indication instance 2 phase A	Digital Input	0 = Ok, 1 = voltage above threshold
	Base	V2.7	PrsPTOV2_Op_phsB	Voltage presence indication instance 2 phase B	Digital Input	0 = Ok, 1 = voltage above threshold
	Base	V2.7	PrsPTOV2_Op_phsC	Voltage presence indication instance 2 phase C	Digital Input	0 = Ok, 1 = voltage above threshold
	Base	V2.7	PDOP1_Str_general	Overpower start	Digital Input	
	Base	V2.7	PDOP1_Op_general	Overpower operate	Digital Input	
	Base	V2.7	PDOP1_FltInd_general	Overpower indication	Digital Input	
	Base	V2.7	PDOP1_Prs_dGen_Fwd	Positive active power (forward direction)	Digital Input	
	Base	V2.7	PDOP1_Prs_dGen_Bwd	Negative active power (reverse direction)	Digital Input	
	Base	V2.8	DisXSWI1_LnEna_stVal	Disconnect switch configured	Digital Input	1 means earth switch wiring configured for "earth switch + disconnect"
	Base	V2.8	DisXSWI1_Pos_stVal	Disconnect switch position	DB Digital Input	0 = intermediate-state, 1 =off, 2= on, 3 = bad-state
	Base	V2.8	EfPTOC1_Op_general	Earth fault detection instance 1 operate	Digital Input	
	Base	V2.8	EfPTOC2_Op_general	Earth fault detection instance 2 operate	Digital Input	
	Base	V2.8	EfPTOC3_Op_general	Earth fault detection instance 3 operate	Digital Input	
	Base	V2.8	DPhPTOC1_Op_general	Directional Phase fault detection instance 1 operate	Digital Input	
	Base	V2.8	DPhPTOC2_Op_general	Directional Phase fault detection instance 2 operate	Digital Input	
	Base	V2.8	SEfPTOC1_Op_general	Sensitive earth fault detection operate	Digital Input	
Base	V2.8	DEfPTOC1_Op_general	Directional Earth fault detection instance 1 operate	Digital Input		

SC150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
	Base	V2.8	DEfPTOC2_Op_general	Directional Earth fault detection instance 2 operate	Digital Input	
	Base	V2.8	RDRE1_RcdMade_stVal	Recording made	Digital Input	
	Base	V2.9	LPHD1_MemHealth_stVal_Warn	Memory health status	Digital Input	
	Base	V2.9	FeaGGIO1_Ind1_stVal	Digital input 1 - main switch open	Digital Input	0 = input inactive, 1 = input active
	Base	V2.9	FeaGGIO1_Ind2_stVal	Digital input 2 - main switch closed	Digital Input	0 = input inactive, 1 = input active
	Base	V2.9	FeaGGIO1_Ind3_stVal	Digital input 3	Digital Input	0 = input inactive, 1 = input active
	Base	V2.9	FeaGGIO1_Ind4_stVal	Digital input 4	Digital Input	0 = input inactive, 1 = input active

SC150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Command	Base	V0.4	MainCSWI1_PosCtlVal_stVal	Switch position requested via Head Unit	DB Digital Output	0 = ignored, 1 =off, 2= on
	Base	V0.4	MainCSWI1_EnaOp_stVal	Enable operation from Head Unit	Digital Output	Only applies if command is in progress 0 = block operation, 1 = enable operation
	Base	V0.4	MainCSWI1_BlOp_stVal	Block operation from Head Unit	Digital Output	Only applies if command is in progress 0 = allow operation, 1 = block operation
	Base	V0.4	MainXSWI1_OpCntRs_stVal	Number of operations preset	Counter Preset	0 -> 2147483647
	Base	V0.4	SimCSWI1_PosCtlVal_stVal	Simulated switch position control	DB Digital Output	0 = ignored, 1 =off, 2 = on
	Base	V0.4	GenGAPC1_PosCtlVal_stVal	Switch position requested from Head Unit automation	DB Digital Output	0 = ignored, 1 =off, 2 = on
	Base	V0.4	GenSFPI1_TrFltCntRs_stVal	General transient fault counter reset command	Counter Preset	0 -> 2147483647
	Base	V0.4	GenSFPI1_SpFltCntRs_stVal	General semi-permanent fault counter reset command	Counter Preset	0 -> 2147483647
	Base	V0.4	GenSFPI1_PmFltCntRs_stVal	General permanent fault counter reset command	Counter Preset	0 -> 2147483647
	Base	V0.4	PhSFPI1_TrFltCntRs_stVal	Phase transient fault counter preset command	Counter Preset	0 -> 2147483647
	Base	V0.4	PhSFPI1_SpFltCntRs_stVal	Phase semi-permanent fault counter preset command	Counter Preset	0 -> 2147483647
	Base	V0.4	PhSFPI1_PmFltCntRs_stVal	Phase permanent fault counter preset command	Counter Preset	0 -> 2147483647
	Base	V0.4	EfSFPI1_TrFltCntRs_stVal	Earth transient fault counter preset command	Counter Preset	0 -> 2147483647
	Base	V0.4	EfSFPI1_SpFltCntRs_stVal	Earth semi-permanent fault counter preset command	Counter Preset	0 -> 2147483647
	Base	V0.4	EfSFPI1_PmFltCntRs_stVal	Earth permanent fault counter preset command	Counter Preset	0 -> 2147483647
	Base	V0.4	XcSFPI1_SpFltCntRs_stVal	Cross-country semi-permanent fault counter preset command	Counter Preset	0 -> 2147483647
	Base	V0.4	XcSFPI1_PmFltCntRs_stVal	Cross-country permanent fault counter preset command	Counter Preset	0 -> 2147483647
	Base	V0.4	LLN0_ActSG1_stVal	Module select settings group 1	Digital Output	0 = ignored, 1 = select settings group 1
	Base	V0.4	LLN0_ActSG2_stVal	Module select settings group 2	Digital Output	0 = ignored, 1 = select settings group 2
	Base	V1.4	RDRE1_RcdTrg_stVal	Trigger recording command	Digital Output	
	Base	V1.6	EfPTOC1_LnEna_setVal	Earth fault detection instance 1 enabled	Boolean Setting	
	Base	V1.6	EfPTOC2_LnEna_setVal	Earth fault detection instance 2 enabled	Boolean Setting	
	Base	V1.6	EfPTOC3_LnEna_setVal	Earth fault detection instance 3 enabled	Boolean Setting	
	Base	V1.6	SEfPTOC1_LnEna_setVal	Sensitive earth fault detection enabled	Boolean Setting	
	Base	V2.8	GenGAPC1_HiSpdEna_stVal	Fast ATS mode enabled - trip for under-voltage on active source	Digital Output	0 = ignored, 1 =off, 2= on
Base	V2.9	SecGAPC1_BlEna_setVal	Sectionalizer automation enable blocked (module used by ATS)	Digital Output	0 = deactivated, 1 = activated	

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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	Base	V0.4	PMr_MM XU1_A_phsA	RMS current phase A	Analogue Input	A				
	Base	V0.4	PMr_MM XU1_A_phsB	RMS current phase B	Analogue Input	A				
	Base	V0.4	PMr_MM XU1_A_phsC	RMS current phase C	Analogue Input	A				
	Base	V0.4	PMr_MM XU1_A_res	RMS current residual (measured or calculated)	Analogue Input	A				
	Base	V0.4	PMr_MM XN1_Amp_mag	RMS current residual (measured)	Analogue Input	A				
	Base	V0.4	PMr_MM XU1_AvA Phs_mag	Mean RMS phase current	Analogue Input	A				
	Base	V0.4	PMr_MM XU1_PhV_phsA	RMS voltage phase A	Analogue Input	V				
	Base	V0.4	PMr_MM XU1_PhV_phsB	RMS voltage phase B	Analogue Input	V				
	Base	V0.4	PMr_MM XU1_PhV_phsC	RMS voltage phase C	Analogue Input	V				
	Base	V0.4	PMr_MM XU1_PhV_neut	RMS voltage neutral (calculated)	Analogue Input	V				
	Base	V0.4	PMr_MM XU1_AvPhV Phs_mag	Mean RMS voltage phase-N	Analogue Input	V				
	Base	V0.4	PMr_MM XU1_Hz_mag	Frequency	Analogue Input	Hz				
	Base	V1.0	PMr_MM XN2_Amp_mag	RMS current residual (calculated)	Analogue Input	A				
	Base	V1.0	PMi_MM XU1_PhV_phsA	Voltage indication phase A %	Analogue Input	%				
	Base	V1.0	PMi_MM XU1_PhV_phsB	Voltage indication phase B %	Analogue Input	%				
	Base	V1.0	PMi_MM XU1_PhV_phsC	Voltage indication phase C %	Analogue Input	%				
	Base	V1.0	PMi_MM XU1_AvPhV Phs_mag	Mean voltage indication %	Analogue Input	%				
	Base	V1.0	PMr_MM XU1_PPV_phsAB	RMS voltage phase A to phase B	Analogue Input	V				
	Base	V1.0	PMr_MM XU1_PPV_phsBC	RMS voltage phase B to phase C	Analogue Input	V				
	Base	V1.0	PMr_MM XU1_PPV_phsCA	RMS voltage phase C to phase A	Analogue Input	V				
	Base	V1.0	PMr_MM XU1_AvPPV Phs_mag	Mean RMS voltage between phases	Analogue Input	V				
	Base	V1.0	PMr_MM XU1_W_phsA	P Real power, phase A	Analogue Input	W				
	PM	V1.0	PMr_MM XU1_W_phsB	P Real power, phase B	Analogue Input	W				
	PM	V1.0	PMr_MM XU1_W_phsC	P Real power, phase C	Analogue Input	W				
	PM	V1.0	PMr_MM XU1_TotW_mag	P Real power, total	Analogue Input	W				
	PM	V1.0	PMr_MM XU1_VAR_phsA	Q Reactive power, phase A	Analogue Input	VAr				
	PM	V1.0	PMr_MM XU1_VAR_phsB	Q Reactive power, phase B	Analogue Input	VAr				
PM	V1.0	PMr_MM XU1_VAR_phsC	Q Reactive power, phase C	Analogue Input	VAr					

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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	PM	V1.0	PMr_MM XU1_TotVAr_mag	Q Reactive power, total	Analogue Input	VAr				
	PM	V1.0	PMr_MM XU1_VA_ph sA	S Apparent power, phase A	Analogue Input	VA				
	PM	V1.0	PMr_MM XU1_VA_ph sB	S Apparent power, phase B	Analogue Input	VA				
	PM	V1.0	PMr_MM XU1_VA_ph sC	S Apparent power, phase C	Analogue Input	VA				
	PM	V1.0	PMr_MM XU1_TotVA_mag	S Apparent power, total	Analogue Input	VA				
	PM	V1.0	PMr_MM XU1_P F_ph sA	Power factor, phase A	Analogue Input					
	PM	V1.0	PMr_MM XU1_P F_ph sB	Power factor, phase B	Analogue Input					
	PM	V1.0	PMr_MM XU1_P F_ph sC	Power factor, phase C	Analogue Input					
	PM	V1.0	PMr_MM XU1_TotP F_mag	True power factor, total	Analogue Input					
	PM	V1.0	T00MMTR1_TotWh_actVal	Total net active energy	Analogue Input	Wh				
	PM	V1.0	T00MMTR1_TotVArh_actVal	Total net reactive energy	Analogue Input	VArh				
	PM	V1.0	T00MMTR1_TotVAh_actVal	Total net apparent energy	Analogue Input	VAh				
	PM	V1.0	T00MMTR1_SupWh_actVal	Net real energy supplied	Analogue Input	Wh				
	PM	V1.0	T00MMTR1_SupVArh_actVal	Net reactive energy supplied	Analogue Input	VArh				
	PM	V1.0	T00MMTR1_DmdWh_actVal	Net real energy demand	Analogue Input	Wh				
	PM	V1.0	T00MMTR1_DmdVArh_actVal	Net reactive energy demand	Analogue Input	VArh				
	PM	V1.0	T00MMTR1_SupVArhPs_actVal	Positive reactive energy supplied	Analogue Input	VArh				
	PM	V1.0	T00MMTR1_SupVArhNg_actVal	Negative reactive energy supplied	Analogue Input	VArh				
	PM	V1.0	T00MMTR1_DmdVArhPs_actVal	Positive reactive energy demand	Analogue Input	VArh				
	PM	V1.0	T00MMTR1_DmdVArhNg_actVal	Negative reactive energy demand	Analogue Input	VArh				
	PM	V1.0	PhAMMTN1_TotWh_actVal	Net real energy, phase A	Analogue Input	Wh				
	PM	V1.0	PhAMMTN1_TotVArh_actVal	Net reactive energy, phase A	Analogue Input	VArh				
	PM	V1.0	PhAMMTN1_TotVAh_actVal	Net apparent energy, phase A	Analogue Input	VAh				
	PM	V1.0	PhBMMTN1_TotWh_actVal	Net real energy, phase B	Analogue Input	Wh				
	PM	V1.0	PhBMMTN1_TotVArh_actVal	Net reactive energy, phase B	Analogue Input	VArh				
	PM	V1.0	PhBMMTN1_TotVAh_actVal	Net apparent energy, phase B	Analogue Input	VAh				
	PM	V1.0	PhCMMTN1_TotWh_actVal	Net real energy, phase C	Analogue Input	Wh				
	PM	V1.0	PhCMMTN1_TotVArh_actVal	Net reactive energy, phase C	Analogue Input	VArh				
	PM	V1.0	PhCMMTN1_TotVAh_actVal	Net apparent energy, phase C	Analogue Input	VAh				
	PQ	V1.0	PQS2MM XU1_PhV_ph sA	RMS voltage phase A, 10 minute period	Analogue Input	V				

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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	PQ	V1.0	PQS2MMXU1_PhV_phsB	RMS voltage phase B, 10 minute period	Analogue Input	V				
	PQ	V1.0	PQS2MMXU1_PhV_phsC	RMS voltage phase C, 10 minute period	Analogue Input	V				
	PQ	V1.0	PQS2MMXU1_PhV_neut	RMS voltage neutral (calculated), 10 minute period	Analogue Input	V				
	PQ	V1.0	PQS2MMXU1_AvPhVPhs_mag	Mean RMS voltage phase-N, 10 minute period	Analogue Input	V				
	PQ	V1.0	PQS3MMXU1_PhV_phsA	RMS voltage phase A, 2 hour period	Analogue Input	V				
	PQ	V1.0	PQS3MMXU1_PhV_phsB	RMS voltage phase B, 2 hour period	Analogue Input	V				
	PQ	V1.0	PQS3MMXU1_PhV_phsC	RMS voltage phase C, 2 hour period	Analogue Input	V				
	PQ	V1.0	PQS3MMXU1_PhV_neut	RMS voltage neutral (calculated), 2 hour period	Analogue Input	V				
	PQ	V1.0	PQS3MMXU1_AvPhVPhs_mag	Mean RMS voltage phase-N, 2 hour period	Analogue Input	V				
	PQ	V1.0	PQS1MSQI1_ImbNgA_mag	Current negative sequence imbalance (I2 / I1), 150/180 cycle period	Analogue Input	%				
	PQ	V1.0	PQS2MSQI1_ImbNgA_mag	Current negative sequence imbalance (I2 / I1), 10 minute period	Analogue Input	%				
	PQ	V1.0	PQS3MSQI1_ImbNgA_mag	Current negative sequence imbalance (I2 / I1), 2 hour period	Analogue Input	%				
	PQ	V1.0	PQS1MSQI1_ImbNgV_mag	Voltage negative sequence imbalance (V2 / V1), 150/180 cycle period	Analogue Input	%				
	PQ	V1.0	PQS2MSQI1_ImbNgV_mag	Voltage negative sequence imbalance (V2 / V1), 10 minute period	Analogue Input	%				
	PQ	V1.0	PQS3MSQI1_ImbNgV_mag	Voltage negative sequence imbalance (V2 / V1), 2 hour period	Analogue Input	%				
	PQ	V1.0	PQS_QVVR1_VVa_mag	Last voltage variation value	Analogue Input	V				
	PQ	V1.0	PQS_QVVR1_VvaTm_mag	Last voltage variation duration	Analogue Input	s				
	PQ	V1.0	PQS_QVVR1_AffPhs_stVal	Last voltage variation affected phases	Analogue Input		1 = phase A, 2 = phase B, 4 = phase C 3 = phase A and B, 5 = phase A and C 6 = phase B and C, 7 = phases A, B, C			
	Base	V1.1	PreFitMMXU1_A_phsA	Last RMS current phase A before fault	Analogue Input	A				

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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	Base	V1.1	PreFitMMXU1_A_phsB	Last RMS current phase B before fault	Analogue Input	A				
	Base	V1.1	PreFitMMXU1_A_phsC	Last RMS current phase C before fault	Analogue Input	A				
	Base	V1.1	PreFitMMXU1_A_res	Last RMS current residual before fault	Analogue Input	A				
	Base	V1.1	PreFitMMXU1_AvAPhs_mag	Last mean RMS phase current before fault	Analogue Input	A				
	Base	V1.1	PreFitMMXU1_PhV_phsA	Last RMS voltage phase A before fault	Analogue Input	V				
	Base	V1.1	PreFitMMXU1_PhV_phsB	Last RMS voltage phase B before fault	Analogue Input	V				
	Base	V1.1	PreFitMMXU1_PhV_phsC	Last RMS voltage phase C before fault	Analogue Input	V				
	Base	V1.1	PreFitMMXU1_PhV_neut	Last RMS voltage neutral before fault	Analogue Input	V				
	Base	V1.1	PreFitMMXU1_AvPhVPhs_mag	Last mean RMS phase voltage before fault	Analogue Input	V				
	PM	V1.1	PMa_MMXU1_A_phsA	Average current phase A	Analogue Input	A				
	PM	V1.1	PMa_MMXU1_A_phsB	Average current phase B	Analogue Input	A				
	PM	V1.1	PMa_MMXU1_A_phsC	Average current phase C	Analogue Input	A				
	PM	V1.1	PMa_MMXU1_A_res	Average current residual (calculated)	Analogue Input	A				
	PM	V1.1	PMa_MMXU1_loA_mag	Average current residual (measured)	Analogue Input	A				
	PM	V1.1	PMa_MMXU1_AvAPhs_mag	Average of Mean current phases A,B,C	Analogue Input	A				
	PM	V1.1	PMa_MMXU1_PhV_phsA	Average voltage phase A	Analogue Input	V				
	PM	V1.1	PMa_MMXU1_PhV_phsB	Average voltage phase B	Analogue Input	V				
	PM	V1.1	PMa_MMXU1_PhV_phsC	Average voltage phase C	Analogue Input	V				
	PM	V1.1	PMa_MMXU1_PhV_neut	Average voltage neutral (calculated)	Analogue Input	V				
	PM	V1.1	PMa_MMXU1_AvPhVPhs_mag	Average of Mean voltage phases A, B,C	Analogue Input	V				
	PM	V1.1	PMa_MMXU1_W_phsA	Average P Real power, phase A	Analogue Input	W				
	PM	V1.1	PMa_MMXU1_W_phsB	Average P Real power, phase B	Analogue Input	W				
	PM	V1.1	PMa_MMXU1_W_phsC	Average P Real power, phase C	Analogue Input	W				
	PM	V1.1	PMa_MMXU1_TotW_mag	Average P Real power, total	Analogue Input	W				



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Analog	PM	V1.1	PMa_MMXU1_VAR_phsA	Average Q Reactive power, phase A	Analogue Input	VAr				
	PM	V1.1	PMa_MMXU1_VAR_phsB	Average Q Reactive power, phase B	Analogue Input	VAr				
	PM	V1.1	PMa_MMXU1_VAR_phsC	Average Q Reactive power, phase C	Analogue Input	VAr				
	PM	V1.1	PMa_MMXU1_TotVAr_mag	Average Q Reactive power, total	Analogue Input	VAr				
	PM	V1.1	PMa_MMXU1_VA_phsA	Average S Apparent power, phase A	Analogue Input	VA				
	PM	V1.1	PMa_MMXU1_VA_phsB	Average S Apparent power, phase B	Analogue Input	VA				
	PM	V1.1	PMa_MMXU1_VA_phsC	Average S Apparent power, phase C	Analogue Input	VA				
	PM	V1.1	PMa_MMXU1_TotVA_mag	Average S Apparent power, total	Analogue Input	VA				
	PM	V1.1	PMndMMXU1_AvAPhs_mag	Minimum of average of Mean RMS phase current, previous day	Analogue Input	A				
	PM	V1.1	PMnwMMXU1_AvAPhs_mag	Minimum of average of Mean RMS phase current, previous week	Analogue Input	A				
	PM	V1.1	PMnmMMXU1_AvAPhs_mag	Minimum of average of Mean RMS phase current, previous month	Analogue Input	A				
	PM	V1.1	PMnyMMXU1_AvAPhs_mag	Minimum of average of Mean RMS phase current, previous year	Analogue Input	A				
	PM	V1.1	PMxdMMXU1_AvAPhs_mag	Maximum of average of Mean RMS phase current, previous day	Analogue Input	A				
	PM	V1.1	PMxwMMXU1_AvAPhs_mag	Maximum of average of Mean RMS phase current, previous week	Analogue Input	A				
	PQ	V1.1	PQS_MHA11_ThdPhV_phsA	Voltage phase A total harmonic distortion	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_ThdPhV_phsB	Voltage phase B total harmonic distortion	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_ThdPhV_phsC	Voltage phase C total harmonic distortion	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_AvThdPhV_mag	Mean voltage total harmonic distortion	Analogue Input	%				

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Analog	PQ	V1.1	PQS_MHAI1_ThdA_phsA	Current phase A total harmonic distortion	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_ThdA_phsB	Current phase B total harmonic distortion	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_ThdA_phsC	Current phase C total harmonic distortion	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_AvThdA_mag	Mean current total harmonic distortion	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV01_phsA_mag	Voltage phase A harmonic 1 - magnitude	Analogue Input	V				
	PQ	V1.1	PQS_MHAI1_HPhV01_phsB_mag	Voltage phase B harmonic 1 - magnitude	Analogue Input	V				
	PQ	V1.1	PQS_MHAI1_HPhV01_phsC_mag	Voltage phase C harmonic 1 - magnitude	Analogue Input	V				
	PQ	V1.1	PQS_MHAI1_HPhV01_neut_mag	Voltage neutral harmonic 1 - magnitude	Analogue Input	V				
	PQ	V1.1	PQS_MHAI1_AvHPhV01_mag	Mean voltage harmonic 1 - magnitude	Analogue Input	V				
	PQ	V1.1	PQS_MHAI1_HPhV01_phsA_ang	Voltage phase A harmonic 1 - angle	Analogue Input	deg				
	PQ	V1.1	PQS_MHAI1_HPhV01_phsB_ang	Voltage phase B harmonic 1 - angle	Analogue Input	deg				
	PQ	V1.1	PQS_MHAI1_HPhV01_phsC_ang	Voltage phase C harmonic 1 - angle	Analogue Input	deg				
	PQ	V1.1	PQS_MHAI1_HPhV01_neut_ang	Voltage neutral harmonic 1 - angle	Analogue Input	deg				
	PQ	V1.1	PQS_MHAI1_HPhV02_phsA	Voltage phase A harmonic 2	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV02_phsB	Voltage phase B harmonic 2	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV02_phsC	Voltage phase C harmonic 2	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV03_phsA	Voltage phase A harmonic 3	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV03_phsB	Voltage phase B harmonic 3	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV03_phsC	Voltage phase C harmonic 3	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV04_phsA	Voltage phase A harmonic 4	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV04_phsB	Voltage phase B harmonic 4	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV04_phsC	Voltage phase C harmonic 4	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV05_phsA	Voltage phase A harmonic 5	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV05_phsB	Voltage phase B harmonic 5	Analogue Input	%				
PQ	V1.1	PQS_MHAI1_HPhV05_phsC	Voltage phase C harmonic 5	Analogue Input	%					
PQ	V1.1	PQS_MHAI1_HPhV06_phsA	Voltage phase A harmonic 6	Analogue Input	%					

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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	PQ	V1.1	PQS_MHAI1_HPhV06_phsB	Voltage phase B harmonic 6	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV06_phsC	Voltage phase C harmonic 6	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV07_phsA	Voltage phase A harmonic 7	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV07_phsB	Voltage phase B harmonic 7	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV07_phsC	Voltage phase C harmonic 7	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV08_phsA	Voltage phase A harmonic 8	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV08_phsB	Voltage phase B harmonic 8	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV08_phsC	Voltage phase C harmonic 8	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV09_phsA	Voltage phase A harmonic 9	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV09_phsB	Voltage phase B harmonic 9	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV09_phsC	Voltage phase C harmonic 9	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV10_phsA	Voltage phase A harmonic 10	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV10_phsB	Voltage phase B harmonic 10	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV10_phsC	Voltage phase C harmonic 10	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV11_phsA	Voltage phase A harmonic 11	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV11_phsB	Voltage phase B harmonic 11	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV11_phsC	Voltage phase C harmonic 11	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV12_phsA	Voltage phase A harmonic 12	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV12_phsB	Voltage phase B harmonic 12	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV12_phsC	Voltage phase C harmonic 12	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV13_phsA	Voltage phase A harmonic 13	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV13_phsB	Voltage phase B harmonic 13	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV13_phsC	Voltage phase C harmonic 13	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV14_phsA	Voltage phase A harmonic 14	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV14_phsB	Voltage phase B harmonic 14	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV14_phsC	Voltage phase C harmonic 14	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV15_phsA	Voltage phase A harmonic 15	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HPhV15_phsB	Voltage phase B harmonic 15	Analogue Input	%				
PQ	V1.1	PQS_MHAI1_HPhV15_phsC	Voltage phase C harmonic 15	Analogue Input	%					
PQ	V1.1	PQS_MHAI1_HA01_phsA_mag	Current phase A harmonic 1 - magnitude	Analogue Input	A					

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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	PQ	V1.1	PQS_MHA11_HA01_phsB_mag	Current phase B harmonic 1 - magnitude	Analogue Input	A				
	PQ	V1.1	PQS_MHA11_HA01_phsC_mag	Current phase C harmonic 1 - magnitude	Analogue Input	A				
	PQ	V1.1	PQS_MHA11_HA01_neut_mag	Current residual harmonic 1 - magnitude	Analogue Input	A				
	PQ	V1.1	PQS_MHA11_AvHA01_mag	Mean current harmonic 1 - magnitude	Analogue Input	A				
	PQ	V1.1	PQS_MHA11_HA01_phsA_ang	Current phase A harmonic 1 - angle	Analogue Input	deg				
	PQ	V1.1	PQS_MHA11_HA01_phsB_ang	Current phase B harmonic 1 - angle	Analogue Input	deg				
	PQ	V1.1	PQS_MHA11_HA01_phsC_ang	Current phase C harmonic 1 - angle	Analogue Input	deg				
	PQ	V1.1	PQS_MHA11_HA01_neut_ang	Current residual harmonic 1 - angle	Analogue Input	deg				
	PQ	V1.1	PQS_MHA11_HA02_phsA_mag	Current phase A harmonic 2	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA02_phsB_mag	Current phase B harmonic 2	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA02_phsC_mag	Current phase C harmonic 2	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA03_phsA	Current phase A harmonic 3	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA03_phsB	Current phase B harmonic 3	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA03_phsC	Current phase C harmonic 3	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA04_phsA	Current phase A harmonic 4	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA04_phsB	Current phase B harmonic 4	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA04_phsC	Current phase C harmonic 4	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA05_phsA	Current phase A harmonic 5	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA05_phsB	Current phase B harmonic 5	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA05_phsC	Current phase C harmonic 5	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA06_phsA	Current phase A harmonic 6	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA06_phsB	Current phase B harmonic 6	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA06_phsC	Current phase C harmonic 6	Analogue Input	%				
	PQ	V1.1	PQS_MHA11_HA07_phsB	Current phase B harmonic 7	Analogue Input	%				
PQ	V1.1	PQS_MHA11_HA07_phsC	Current phase C harmonic 7	Analogue Input	%					
PQ	V1.1	PQS_MHA11_HA08_phsA	Current phase A harmonic 8	Analogue Input	%					
PQ	V1.1	PQS_MHA11_HA08_phsB	Current phase B harmonic 8	Analogue Input	%					
PQ	V1.1	PQS_MHA11_HA08_phsC	Current phase C harmonic 8	Analogue Input	%					

SC150										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	PQ	V1.1	PQS_MHAI1_HA09_phsA	Current phase A harmonic 9	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA09_phsB	Current phase B harmonic 9	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA09_phsC	Current phase C harmonic 9	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA09_phsA	Current phase A harmonic 9	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA09_phsB	Current phase B harmonic 9	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA09_phsC	Current phase C harmonic 9	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA10_phsA	Current phase A harmonic 10	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA10_phsB	Current phase B harmonic 10	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA10_phsC	Current phase C harmonic 10	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA11_phsA	Current phase A harmonic 11	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA11_phsB	Current phase B harmonic 11	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA11_phsC	Current phase C harmonic 11	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA12_phsA	Current phase A harmonic 12	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA12_phsB	Current phase B harmonic 12	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA12_phsC	Current phase C harmonic 12	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA13_phsA	Current phase A harmonic 13	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA13_phsB	Current phase B harmonic 13	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA13_phsC	Current phase C harmonic 13	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA14_phsA	Current phase A harmonic 14	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA14_phsB	Current phase B harmonic 14	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA14_phsC	Current phase C harmonic 14	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA15_phsA	Current phase A harmonic 15	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA15_phsB	Current phase B harmonic 15	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_HA15_phsC	Current phase C harmonic 15	Analogue Input	%				
	PQ	V1.2	PQS2MHAI1_ThdPhV_phsA	Voltage phase A total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.2	PQS2MHAI1_ThdPhV_phsB	Voltage phase B total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.2	PQS2MHAI1_ThdPhV_phsC	Voltage phase C total harmonic distortion - 10 minutes	Analogue Input	%				

SC150										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	PQ	V1.2	PQS2MHAI1_AvThdPhV_mag	Mean voltage total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.2	PQS3MHAI1_ThdPhV_phsA	Voltage phase A total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.2	PQS3MHAI1_ThdPhV_phsB	Voltage phase B total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.2	PQS3MHAI1_ThdPhV_phsC	Voltage phase C total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.2	PQS3MHAI1_AvThdPhV_mag	Mean voltage total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.2	PQS_MHAI1_ThdA_res	Current residual total harmonic distortion	Analogue Input	%				
	PQ	V1.2	PQS2MHAI1_ThdA_phsA	Current phase A total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.2	PQS2MHAI1_ThdA_phsB	Current phase B total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.2	PQS2MHAI1_ThdA_phsC	Current phase C total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.2	PQS2MHAI1_ThdA_res	Current residual total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.2	PQS2MHAI1_AvThdA_mag	Mean current total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.2	PQS3MHAI1_ThdA_phsA	Current phase A total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.2	PQS3MHAI1_ThdA_phsB	Current phase B total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.2	PQS3MHAI1_ThdA_phsC	Current phase C total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.2	PQS3MHAI1_ThdA_res	Current residual total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.2	PQS3MHAI1_AvThdA_mag	Mean current total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.2	PQS2MHAI1_HPhV01_phsA	Voltage phase A harmonic 1 - 10 minutes	Analogue Input	V				
	PQ	V1.2	PQS2MHAI1_HPhV01_phsB	Voltage phase B harmonic 1 - 10 minutes	Analogue Input	V				
	PQ	V1.2	PQS2MHAI1_HPhV01_phsC	Voltage phase C harmonic 1 - 10 minutes	Analogue Input	V				
	PQ	V1.2	PQS2MHAI1_AvHPhV01_mag	Mean voltage harmonic 1 - 10 minutes	Analogue Input	V				

SC150										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	<i>For following variables, nn is a generic index for the harmonic, from 02 to 15, and X is a generic letter for the phase, A, B or C</i>									
	PQ	V1.2	PQS2MHAI1_HPhVnn_phsX	Voltage phase X harmonic nn - 10 minutes	Analogue Input	%				
	PQ	V1.2	PQS3MHAI1_HPhV01_phsA	Voltage phase A harmonic 1 - 2 hours	Analogue Input	V				
	PQ	V1.2	PQS3MHAI1_HPhV01_phsB	Voltage phase B harmonic 1 - 2 hours	Analogue Input	V				
	PQ	V1.2	PQS3MHAI1_HPhV01_phsC	Voltage phase C harmonic 1 - 2 hours	Analogue Input	V				
	PQ	V1.2	PQS3MHAI1_AvHPhV01_mag	Mean voltage harmonic 1 - 2 hours	Analogue Input	V				
	PQ	V1.2	PQS3MHAI1_HPhVnn_phsX	Voltage phase X harmonic nn - 2 hours	Analogue Input	%				
	PQ	V1.2	PQS_MHAI1_HAnn_res <i>(add « _mag » for nn=02)</i>	Current residual harmonic nn	Analogue Input	%				
	PQ	V1.2	PQS2MHAI1_HA01_phsA	Current phase A harmonic 1 - 10 minutes	Analogue Input	A				
	PQ	V1.2	PQS2MHAI1_HA01_phsB	Current phase B harmonic 1 - 10 minutes	Analogue Input	A				
	PQ	V1.2	PQS2MHAI1_HA01_phsC	Current phase C harmonic 1 - 10 minutes	Analogue Input	A				
	PQ	V1.2	PQS2MHAI1_HA01_res	Current residual harmonic 1 - 10 minutes	Analogue Input	A				
	PQ	V1.2	PQS2MHAI1_AvHA01_mag	Mean current harmonic 1 - 10 minutes	Analogue Input	A				
	PQ	V1.2	PQS2MHAI1_HAnn_phsX	Current phase X harmonic nn - 10 minutes	Analogue Input	%				
	PQ	V1.2	PQS2MHAI1_HAnn_res	Current residual harmonic nn - 10 minutes	Analogue Input	%				
	PQ	V1.2	PQS3MHAI1_HA01_phsA	Current phase A harmonic 1 - 2 hours	Analogue Input	A				
	PQ	V1.2	PQS3MHAI1_HA01_phsB	Current phase B harmonic 1 - 2 hours	Analogue Input	A				
	PQ	V1.2	PQS3MHAI1_HA01_phsC	Current phase C harmonic 1 - 2 hours	Analogue Input	A				
	PQ	V1.2	PQS3MHAI1_HA01_res	Current residual harmonic 1 - 2 hours	Analogue Input	A				
	PQ	V1.2	PQS3MHAI1_AvHA01_mag	Mean current harmonic 1 - 2 hours	Analogue Input	A				
PQ	V1.2	PQS3MHAI1_HAnn_phsX	Current phase X harmonic nn - 2 hours	Analogue Input	%					
PQ	V1.2	PQS3MHAI1_HAnn_res	Current residual harmonic nn - 2 hours	Analogue Input	%					

SC150											
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut	
Analog	PQ	V1.4	PQS1MMXU1_PhV_phsA	RMS voltage phase A, 150/180 cycles period	Analogue Input	V					
	PQ	V1.4	PQS1MMXU1_PhV_phsB	RMS voltage phase B, 150/180 cycles period	Analogue Input	V					
	PQ	V1.4	PQS1MMXU1_PhV_phsC	RMS voltage phase C, 150/180 cycles period	Analogue Input	V					
	PQ	V1.4	PQS1MMXU1_PhV_neut	RMS voltage neutral (calculated), 150/180 cycles period	Analogue Input	V					
	PQ	V1.4	PQS1MMXU1_AvPhVPhs_mag	Mean RMS voltage phase-N, 150/180 cycles period	Analogue Input	V					
	PQ	V1.4	PQS4MMXU1_Hz_mag	Frequency, 10 second period	Analogue Input	Hz					
	<i>For following variables, nn is a generic index for the harmonic, from 16 to 40, and X is a generic letter for the phase, A, B or C</i>										
	PQ	V1.4	PQS_MHAI1_HPhV <sub>nn</sub> _phs <sub>X</sub>	Voltage phase <sub>X</sub> harmonic <sub>nn</sub>	Analogue Input	%					
	PQ	V1.4	PQS2MHAI1_HPhV <sub>nn</sub> _phs <sub>X</sub>	Voltage phase <sub>X</sub> harmonic <sub>nn</sub> - 10 minutes	Analogue Input	%					
	PQ	V1.4	PQS3MHAI1_HPhV <sub>nn</sub> _phs <sub>X</sub>	Voltage phase <sub>X</sub> harmonic <sub>nn</sub> - 2 hours	Analogue Input	%					
	PQ	V1.4	PQS_MHAI1_HA <sub>nn</sub> _phs <sub>X</sub>	Current phase <sub>X</sub> harmonic <sub>nn</sub>	Analogue Input	%					
	PQ	V1.4	PQS_MHAI1_HA <sub>nn</sub> _res	Current residual harmonic <sub>nn</sub>	Analogue Input	%					
	PQ	V1.4	PQS2MHAI1_HA <sub>nn</sub> _phs <sub>X</sub>	Current phase <sub>X</sub> harmonic <sub>nn</sub> - 10 minutes	Analogue Input	%					
	PQ	V1.4	PQS2MHAI1_HA <sub>nn</sub> _res	Current residual harmonic <sub>nn</sub> - 10 minutes	Analogue Input	%					
PQ	V1.4	PQS3MHAI1_HA <sub>nn</sub> _phs <sub>X</sub>	Current phase <sub>X</sub> harmonic <sub>nn</sub> - 2 hours	Analogue Input	%						
PQ	V1.4	PQS3MHAI1_HA <sub>nn</sub> _res	Current residual harmonic <sub>nn</sub> - 2 hours	Analogue Input	%						

SC150										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	CM\Environment	V1.6	MMET_EnvHum	MV Cubicle relative humidity	Analogue Input	%				
	CM\Thermal	V1.6	PhASTMP_Tmp_mag	MV Cable connection phase A temperature	Analogue Input	°C				
	CM\Thermal	V1.6	PhBSTMP_Tmp_mag	MV Cable connection phase B temperature	Analogue Input	°C				
	CM\Thermal	V1.6	PhCSTMP_Tmp_mag	MV Cable connection phase C temperature	Analogue Input	°C				



SC150										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	Base	V2.7	FitMMXU1_A_phsA	Fault current phase A	Analogue Input	A				
	Base	V2.7	FitMMXU1_A_phsB	Fault current phase B	Analogue Input	A				
	Base	V2.7	FitMMXU1_A_phsC	Fault current phase C	Analogue Input	A				
	Base	V2.7	FitMMXU1_A_res	Fault current residual	Analogue Input	A				
	Base	V2.7	FitMMXU1_PhV_phsA	Fault voltage phase A	Analogue Input	V				
	Base	V2.7	FitMMXU1_PhV_phsB	Fault voltage phase B	Analogue Input	V				
	Base	V2.7	FitMMXU1_PhV_phsC	Fault voltage phase C	Analogue Input	V				
	Base	V2.7	FitMMXU1_PhV_neut	Fault voltage neutral	Analogue Input	V				

3.3 SC160

The data points supported by the SC150 are also supported by the SC160. Please refer to chapter SC150 to consult the common variables.  
 The only exceptions are PDOP variables (PDOP1\_Str\_general, PDOP1\_Op\_general, PDOP1\_FltInd\_general, PDOP1\_Prs\_dGen\_Fwd, PDOP1\_Prs\_dGen\_Bwd) which are not supported by SC160.

The following data points are supported only by SC160.

SC160						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V1.6	PhPTOC1_Op_general	Phase fault detection instance 1 operate	Digital Input	
	Base	V1.6	PhPTOC1_Str_general	Phase fault detection instance 1 start	Digital Input	
	Base	V1.6	PhPTOC2_Op_general	Phase fault detection instance 2 operate	Digital Input	
	Base	V1.6	PhPTOC2_Str_general	Phase fault detection instance 2 start	Digital Input	
	Base	V1.6	PhPTOC3_Op_general	Phase fault detection instance 3 operate	Digital Input	
	Base	V1.6	PhPTOC3_Str_general	Phase fault detection instance 3 start	Digital Input	
	Base	V1.6	EfPTOC1_Op_general	Earth fault detection instance 1 operate	Digital Input	
	Base	V1.6	EfPTOC1_Str_general	Earth fault detection instance 1 start	Digital Input	
	Base	V1.6	EfPTOC2_Op_general	Earth fault detection instance 2 operate	Digital Input	
	Base	V1.6	EfPTOC2_Str_general	Earth fault detection instance 2 start	Digital Input	
	Base	V1.6	EfPTOC3_Op_general	Earth fault detection instance 3 operate	Digital Input	
	Base	V1.6	EfPTOC3_Str_general	Earth fault detection instance 3 start	Digital Input	
	Base	V1.6	DPhPTOC1_Op_general	Directional Phase fault detection instance 1 operate	Digital Input	
	Base	V1.6	DPhPTOC1_Str_general	Directional Phase fault detection instance 1 start	Digital Input	
	Base	V1.6	DPhPTOC2_Op_general	Directional Phase fault detection instance 2 operate	Digital Input	
	Base	V1.6	DPhPTOC2_Str_general	Directional Phase fault detection instance 2 start	Digital Input	
	Base	V1.6	SEfPTOC1_Op_general	Sensitive earth fault detection operate	Digital Input	
	Base	V1.6	SEfPTOC1_Str_general	Sensitive earth fault detection start	Digital Input	
	Base	V1.6	DEfPTOC1_Op_general	Directional Earth fault detection instance 1 operate	Digital Input	
	Base	V1.6	DEfPTOC1_Str_general	Directional Earth fault detection instance 1 start	Digital Input	
	Base	V1.6	DEfPTOC2_Op_general	Directional Earth fault detection instance 2 operate	Digital Input	
	Base	V1.6	DEfPTOC2_Str_general	Directional Earth fault detection instance 2 start	Digital Input	
	Base	V1.6	GenPTRC1_Tr_general	General fault detection trip	Digital Input	
	Base	V1.6	GenPTRC1_TrInd_stVal	General fault detection, latched trip indicator	Digital Input	
Base	V1.6	EfPTRC1_TrInd_stVal	Earth fault detection, latched trip indicator	Digital Input		
Base	V1.6	EfPTRC1_OpCnt_stVal	Earth fault detection trip counter	Counter		

SC160						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V1.6	PhPTRC1_TrInd_stVal	Phase fault detection, latched trip indicator	Digital Input	
	Base	V1.6	PhPTRC1_OpCnt_stVal	Phase fault detection trip counter	Counter	
	Base	V1.6	GenPTRC1_LnEna_stVal	Protection enabled for the module	Digital Input	
	Base	V2.7	CipPTUC1_Str_general	Cold Load Pickup inhibit - current absence detected	Digital Input	
	Base	V2.7	CipPTOC1_Str_general	Cold Load Pickup inhibit - current presence detected	Digital Input	
	Base	V2.7	PhPCLP1_Op_general	Cold Load Pickup inhibit for phase faults active	Digital Input	
	Base	V2.7	EfPCLP1_Op_general	Cold Load Pickup inhibit for earth faults active	Digital Input	
	Base	V2.7	DPhPCLP1_Op_general	Cold Load Pickup inhibit for directional phase faults active	Digital Input	
	Base	V2.7	DEfPCLP1_Op_general	Cold Load Pickup inhibit for directional earth faults active	Digital Input	
	Base	V2.8	DisXSWI1_LnEna_stVal	Disconnect switch configured	Digital Input	1 means earth switch wiring configured for "earth switch + disconnect"
	Base	V2.8	DisXSWI1_Pos_stVal	Disconnect switch position	DB Digital Input	0 = intermediate-state, 1 =off, 2= on, 3 = bad-state
	Base	V2.8	LLN0_EditSG_stVal	Module setting group for edits	Analogue Input	0 means none, 1 or 2
	Base	V2.8.1	LoadPTOC1_Str_general	Heavy load detected any phase	Digital Input	
	Base	V2.8.1	LoadPTOC1_Op_general	Heavy load alarm	Digital Input	
	Base	V2.8.1	LoadPTOC2_Str_general	Overload detected any phase	Digital Input	
	Base	V2.8.1	LoadPTOC2_Op_general	Overload alarm	Digital Input	
	Base	V2.9	LPHD1_MemHealth_stVal_Warn	Memory health status	Digital Input	
	Base	V2.9	FeaGGIO1_Ind1_stVal	Digital input 1 - main switch open	Digital Input	0 = input inactive, 1 = input active
	Base	V2.9	FeaGGIO1_Ind2_stVal	Digital input 2 - main switch closed	Digital Input	0 = input inactive, 1 = input active
	Base	V2.9	FeaGGIO1_Ind3_stVal	Digital input 3	Digital Input	0 = input inactive, 1 = input active
Base	V2.9	FeaGGIO1_Ind4_stVal	Digital input 4	Digital Input	0 = input inactive, 1 = input active	

SC160							
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Default	Bit or enumeration Value Liste de valeurs ou bits
Command	Base	V1.6	GenPTRC1_TrIndRs_stVal	Module reset latched trip indications	Digital Output		
	Base	V1.6	GenPTRC1_OpCntRs_stVal	Module reset trip operation counters	Digital Output		
	Base	V2.7	LLN0_LEDRs_stVal	Module reset trip and FPI indications	Digital Output		
	Base	V2.8	AbsPTUV1_LnEna_setVal	Voltage absence 1 enabled	Boolean Setting	FALSE	
	Base	V2.8	AbsPTUV2_LnEna_setVal	Voltage absence 2 enabled	Boolean Setting	FALSE	
	Base	V2.8	PrsPTOV1_LnEna_setVal	Voltage presence 1 enabled	Boolean Setting	FALSE	
	Base	V2.8	PrsPTOV2_LnEna_setVal	Voltage presence 2 enabled	Boolean Setting	FALSE	
	Base	V2.8	PhPTOC1_LnEna_setVal	Phase fault detection instance 1 enabled	Boolean Setting	FALSE	
	Base	V2.8	PhPTOC2_LnEna_setVal	Phase fault detection instance 2 enabled	Boolean Setting	FALSE	
	Base	V2.8	PhPTOC3_LnEna_setVal	Phase fault detection instance 3 enabled	Boolean Setting	TRUE	
	Base	V2.8	DPhPTOC1_LnEna_setVal	Directional phase fault detection instance 1 enabled	Boolean Setting	FALSE	
	Base	V2.8	DPhPTOC2_LnEna_setVal	Directional phase fault detection instance 2 enabled	Boolean Setting	FALSE	
	Base	V2.8	DEfPTOC1_LnEna_setVal	Directional earth fault detection instance 1 enabled	Boolean Setting	FALSE	
	Base	V2.8	DEfPTOC2_LnEna_setVal	Directional earth fault detection instance 2 enabled	Boolean Setting	FALSE	
	Base	V2.8	PhPTRC1_RefPhPTOC1_setVal	Phase fault 1 enabled for tripping	Boolean Setting	TRUE	
	Base	V2.8	PhPTRC1_RefPhPTOC2_setVal	Phase fault 2 enabled for tripping	Boolean Setting	TRUE	
	Base	V2.8	PhPTRC1_RefPhPTOC3_setVal	Phase fault 3 enabled for tripping	Boolean Setting	TRUE	
	Base	V2.8	EfPTRC1_RefEfPTOC1_setVal	Earth fault 1 enabled for tripping	Boolean Setting	TRUE	
	Base	V2.8	EfPTRC1_RefEfPTOC2_setVal	Earth fault 2 enabled for tripping	Boolean Setting	TRUE	
	Base	V2.8	EfPTRC1_RefEfPTOC3_setVal	Earth fault 3 enabled for tripping	Boolean Setting	TRUE	
	Base	V2.8	EfPTRC1_RefSEfPTOC1_setVal	Sensitive earth fault 1 enabled for tripping	Boolean Setting	TRUE	
	Base	V2.8	PhPTRC1_RefDPhPTOC1_setVal	Directional phase fault 1 enabled for tripping	Boolean Setting	TRUE	
	Base	V2.8	PhPTRC1_RefDPhPTOC2_setVal	Directional phase fault 2 enabled for tripping	Boolean Setting	TRUE	
	Base	V2.8	EfPTRC1_RefDEfPTOC1_setVal	Directional earth fault 1 enabled for tripping	Boolean Setting	TRUE	
Base	V2.8	EfPTRC1_RefDEfPTOC2_setVal	Directional earth fault 2 enabled for tripping	Boolean Setting	TRUE		
Base	V2.9	LPHD1_MemGdPct_mag	Memory percentage of good blocks	Digital Output		0 = deactivated, 1 = activated	

SC160										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	Base	V2.8	FitMMXU1_ClcExp_stVal	Fault event values ready	Analogue Input					

SC160										
CoreDb type/ Type CoreDb	Option	Softwar e/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Setpoint	Base	V2.8	TCTR1_PhPriARtg_setMag	CT Phase primary rated current	Integer Setting	A	50	1250		500
	Base	V2.8	TCTR1_PhSecARtg_setMag	CT Phase secondary rated current	Integer Setting	A	1	5		1
	Base	V2.8	TCTR1_loPriARtg_setMag	CT Core balance primary rated current	Integer Setting	A	50	1250		500
	Base	V2.8	TCTR1_loSecARtg_setMag	CT Core balance secondary rated current	Integer Setting	A	1	5		1
	Base	V2.8	TVTR1_PriVRtg_setMag	Primary rated voltage (phase-to-phase)	Float Setting	V	3000	36000		20000
	Base	V2.8	TVTR1_SecVRtg_setMag	Secondary rated voltage (phase-to-phase)	Float Setting	V	1	10		3,25
	Base	V2.8	AbsPTUV1_StrValPct_setMag	Voltage absence 1 threshold setting as percentage of rating	Float Setting	%	10	100		30
	Base	V2.8	AbsPTUV1_OpDITmms_setVal	Voltage absence 1 validation time setting	Integer Setting	ms	0	300000		50
	Base	V2.8	AbsPTUV2_StrValPct_setMag	Voltage absence 2 threshold setting as percentage of rating	Float Setting	%	10	100		30
	Base	V2.8	AbsPTUV2_OpDITmms_setVal	Voltage absence 2 validation time setting	Integer Setting	ms	0	300000		50
	Base	V2.8	PrsPTOV1_StrValPct_setMag	Voltage presence 1 threshold setting as percentage of rating	Float Setting	%	20	200		70
	Base	V2.8	PrsPTOV1_OpDITmms_setVal	Voltage presence 1 validation time setting	Integer Setting	ms	0	300000		50
	Base	V2.8	PrsPTOV2_StrValPct_setMag	Voltage presence 2 threshold setting as percentage of rating	Float Setting	%	20	200		70
	Base	V2.8	PrsPTOV2_OpDITmms_setVal	Voltage presence 2 validation time setting	Integer Setting	ms	0	300000		50
	Base	V2.8	PhPTOC1_StrVal_setMag	Phase fault detection instance 1 threshold setting	Float Setting	A	0.02 In	DT: 4In IDMT: In		100
	Base	V2.8	PhPTOC1_OpDITmms_setVal	Phase fault detection instance 1 validation time setting	Integer Setting	ms	DT: 50 IDMT: 100	DT: 300000 IDMT: 12500		100
	Base	V2.8	PhPTOC2_StrVal_setMag	Phase fault detection instance 2 threshold setting	Float Setting	A	0.02 In	DT: 4In IDMT: In		100
	Base	V2.8	PhPTOC2_OpDITmms_setVal	Phase fault detection instance 2 validation time setting	Integer Setting	ms	DT: 50 IDMT: 100	DT: 300000 IDMT: 12500		100
	Base	V2.8	PhPTOC3_StrVal_setMag	Phase fault detection instance 3 threshold setting	Float Setting	A	0.02 In	DT: 4In IDMT: In		100
	Base	V2.8	PhPTOC3_OpDITmms_setVal	Phase fault detection instance 3 validation time setting	Integer Setting	ms	DT: 0 IDMT: n/a	DT: 300000 IDMT: n/a		100
Base	V2.8	DPhPTOC1_StrVal_setMag	Directional phase fault detection instance 1 threshold setting	Float Setting	A	0.1In	DT: 4In IDMT: In		100	
Base	V2.8	DPhPTOC1_OpDITmms_setVal	Directional phase fault detection instance 1 validation time setting	Integer Setting	ms	DT: 100 IDMT: 100	DT: 300000 IDMT: 12500		100	

SC160

CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Setpoint	Base	V2.8	DPhPTOC2_StrVal_setMag	Directional phase fault detection instance 2 threshold setting	Float Setting	A	0.1In	DT: 4In IDMT: In		100
	Base	V2.8	DPhPTOC2_OpDITmms_setVal	Directional phase fault detection instance 2 validation time setting	Integer Setting	ms	DT: 100 IDMT: 100	DT: 300000 IDMT: 12500		100
	Base	V2.8	EfPTOC1_StrVal_setMag	Earth fault detection instance 1 threshold setting	Float Setting	A	Ires: 0.008 In Ino: 0.008 Ino	DT: 1.6In 1.6 Ino IDMT: In, Ino		100
	Base	V2.8	EfPTOC1_OpDITmms_setVal	Earth fault detection instance 1 validation time setting	Integer Setting	ms	DT: 50 IDMT: 100	DT: 300000 IDMT: 12500		100
	Base	V2.8	EfPTOC2_StrVal_setMag	Earth fault detection instance 2 threshold setting	Float Setting	A	Ires: 0.008 In Ino: 0.008 Ino	DT: 1.6In 1.6 Ino IDMT: In, Ino		100
	Base	V2.8	EfPTOC2_OpDITmms_setVal	Earth fault detection instance 2 validation time setting	Integer Setting	ms	DT: 50 IDMT: 100	DT: 300000 IDMT: 12500		100
	Base	V2.8	EfPTOC3_StrVal_setMag	Earth fault detection instance 3 threshold setting	Float Setting	A	Ires: 0.008 In Ino: 0.008 Ino	DT: 1.6In 1.6 Ino IDMT: In, Ino		100
	Base	V2.8	EfPTOC3_OpDITmms_setVal	Earth fault detection instance 3 validation time setting	Integer Setting	ms	DT: 0 IDMT: n/a	DT: 300000 IDMT: n/a		100
	Base	V2.8	SEfPTOC1_StrVal_setMag	Sensitive earth fault detection threshold setting	Float Setting	A	Ires: 0.008 In Ino: 0.008 Ino	DT: 1.6In 1.6 Ino IDMT: In, Ino		100
	Base	V2.8	SEfPTOC1_OpDITmms_setVal	Sensitive earth fault detection validation time setting	Integer Setting	ms	DT: 0 IDMT: n/a	DT: 300000 IDMT: n/a		100
	Base	V2.8	DEfPTOC1_StrVal_setMag	Directional earth fault detection instance 1 current threshold setting	Float Setting	A	0.008 In	3.5 In		SC150: 1 SC160: In
	Base	V2.8	DEfPTOC1_OpDITmms_setVal	Directional earth fault detection instance 1 validation time setting	Integer Setting	ms	50	300000		100
	Base	V2.8	DEfPTOC2_StrVal_setMag	Directional earth fault detection instance 2 current threshold setting	Float Setting	A	1	1		1
	Base	V2.8	DEfPTOC2_OpDITmms_setVal	Directional earth fault detection instance 2 validation time setting	Integer Setting	ms	50	300000		100

3.4 LV150

LV150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V1.0	PMr_MMxu1_QDetCodA_mag	Quality detail code for current	Analogue Input	0 = Good, 1 = Invalid, 3= Questionable
	Base	V1.0	PMr_MMxu1_QDetCodV_mag	Quality detail code for voltage	Analogue Input	11 = Questionable due to out-of-range, 65 = Invalid due to ADC Failure, 515 = Questionable and Inaccurate on start-up"
	Base	V1.0	LCCH1_ChLiv_stVal	Module communication active status	Digital Input	
	Base	V1.0	LLN0_Health_stVal_Fail	Module health error	Digital Input	0 = No communications, 1 = communications ok
	Base	V1.0	LLN0_CfgHealth_stVal_Warn	Configuration health	Digital Input	0 = Ok, 1 = Error
	Base	V1.0	LPHD1_PhyHealth_stVal_Fail	Module physical health error	Digital Input	0 = Ok, 1 = Warning
	Base	V1.0	LTMS1_TmSynErr_stVal	Time not synchronised	Digital Input	0 = Ok, 1 = Error
	Base	V1.0	LTMS1_TmChErr_stVal	Time synchronisation source failure	Digital Input	0 = Ok, 1 = Error
	Base	V1.0	LTMS2_TmChErr_stVal	1Hz time signal unstable	Digital Input	0 = Ok, 1 = Error
	Base	V1.0	LTMS2_TmSynErr_stVal	1Hz time signal not synchronised (IEEE1588)	Digital Input	0 = Ok, 1 = Error
	Base	V1.0	LTMS2_OfsTmns_stVal	Offset from master clock	Analogue Input	0 = Ok, 1 = Error
	Base	V1.0	LCCH2_InOv_stVal	Internal communications sampled values lost	Digital Input	
	Base	V1.0	LCCH1_MvOutOv_stVal	Module communications analog measurement events lost	DB Digital Input	0 = Ok, 1 = Warning
	Base	V1.0	LCCH1_SpOutOv_stVal	Module communications status events lost	DB Digital Input	0 = Ok, 1 = Warning
	Base	V1.0	LCCH1_CntOutOv_stVal	Module communications counter events lost	DB Digital Input	0 = Ok, 1 = Warning
	Base	V1.0	InstSTMP1_Health_stVal_Fail	Temperature 1: sensor error	Digital Input	0= Sensor is connected and working properly 1= Sensor is disconnected or is faulty
	Base	V1.0	InstSTMP2_Health_stVal_Fail	Temperature 2: sensor error	Digital Input	0= Sensor is connected and working properly 1= Sensor is disconnected or is faulty
	Base	V1.0	InstSTMP3_Health_stVal_Fail	Temperature 3: sensor error	Digital Input	0= Sensor is connected and working properly 1= Sensor is disconnected or is faulty
	Base	V1.0	SvSVPI1_Abs_general	Voltage absence for all phases	Digital Input	0 = all voltages above threshold, 1 = at least 1 phase voltage below threshold
	Base	V1.0	SvSVPI1_Prs_general	Voltage presence for all phases	Digital Input	0 = at least 1 phase voltage below threshold, 1 = all phase voltages above threshold
	Base	V1.0	LvSVPI1_Prs_general	Voltage presence for HMI – at least one phase	Digital Input	0 = voltage absent, 1 = voltage present. Copy of "Voltage presence from measured values"
	Base	V1.0	LLN0_ActSG_stVal	Active settings group	Analogue Input	1 or 2
	BC	V1.0	BCPTOV1_Op_general	Broken conductor detection - instance 1	Digital Input	0 = normal, 1 = fault detected
	BC	V1.0	BCPTOV2_Op_general	Broken conductor detection - instance 2	Digital Input	0 = normal, 1 = fault detected
	PQ	V1.0	PQS_QIUB1_VaStr_stVal	Current unbalance variation indication	Digital Input	0 = normal, 1 = current unbalance is greater than threshold
	PQ	V1.0	PQS_QVUB1_VaStr_stVal	Voltage unbalance variation indication	Digital Input	0 = normal, 1 = voltage unbalance is greater than threshold

LV150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	PQ	V1.0	PQS_QIUB1_VaEvtCnt_stVal	Current unbalance variation event counter	Counter	
	PQ	V1.0	PQS_QVUB1_VaEvtCnt_stVal	Voltage unbalance variation event counter	Counter	
	PQ	V1.0	PQS_QVVR1_DipStr_stVal	Voltage dip indication	Digital Input	0 = normal, 1 = dip in progress
	PQ	V1.0	PQS_QVVR1_SwlStr_stVal	Voltage swell indication	Digital Input	0 = normal, 1 = swell in progress
	PQ	V1.0	PQS_QVVR1_IntrStr_stVal	Voltage interruption indication	Digital Input	0 = normal, 1 = interruption in progress
	PQ	V1.0	PQS_QVVR1_DipEvtCnt1_stVal	Short duration voltage dip event count, duration less than EvtTmms1	Counter	
	PQ	V1.0	PQS_QVVR1_DipEvtCnt2_stVal	Medium duration voltage dip event count	Counter	
	PQ	V1.0	PQS_QVVR1_DipEvtCnt3_stVal	Long duration voltage dip event count, duration greater than EvtTmms2	Counter	
	PQ	V1.0	PQS_QVVR1_SwlEvtCnt1_stVal	Short duration voltage swell event count, duration less than EvtTmms1	Counter	
	PQ	V1.0	PQS_QVVR1_SwlEvtCnt2_stVal	Medium duration voltage swell event count	Counter	
	PQ	V1.0	PQS_QVVR1_SwlEvtCnt3_stVal	Long duration voltage swell event count, duration greater than EvtTmms2	Counter	
	PQ	V1.0	PQS_QVVR1_IntrEvtCnt1_stVal	Short interruption counter	Counter	
	PQ	V1.0	PQS_QVVR1_IntrEvtCnt2_stVal	Long interruption counter	Counter	
	Base	V1.1	AbsPTUV1_Op_general	Voltage absence indication instance 1	Digital Input	0 = Ok, 1 = at least one voltage below threshold
	Base	V1.1	PrsPTOV1_Op_general	Voltage presence indication instance 1	Digital Input	0 = Ok, 1 = at least one voltage above threshold
	Base	V1.1	AbsPTUV2_Op_general	Voltage absence indication instance 2	Digital Input	0 = Ok, 1 = at least one voltage below threshold
	Base	V1.1	PrsPTOV2_Op_general	Voltage presence indication instance 2	Digital Input	0 = Ok, 1 = at least one voltage above threshold
	Base	V1.1	NeutPTOV1_Op_general	Voltage neutral displacement indication 1	Digital Input	0 = Ok, 1 = neutral voltage above threshold
	Base	V1.1	NeutPTOV2_Op_general	Voltage neutral displacement indication 2	Digital Input	0 = Ok, 1 = neutral voltage above threshold
	Base	V1.1	NeutPTOV3_Op_general	Voltage neutral displacement indication 3	Digital Input	0 = Ok, 1 = neutral voltage above threshold
	Base	V1.3	LLN0_Health_stVal_Warn	Module health warning	Digital Input	0 = Ok, 1 = Warning
	Base	V1.3	LLN0_Health_stVal	Module health enumeration	Enumeration	1 = Ok, 2=Warning, 3=Error



LV150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V2.7	AbsPTUV1_Op_phsA	Voltage absence indication instance 1 phase A	Digital Input	0 = Ok, 1 = voltage below threshold
	Base	V2.7	AbsPTUV1_Op_phsB	Voltage absence indication instance 1 phase B	Digital Input	0 = Ok, 1 = voltage below threshold
	Base	V2.7	AbsPTUV1_Op_phsC	Voltage absence indication instance 1 phase C	Digital Input	0 = Ok, 1 = voltage below threshold
	Base	V2.7	PrsPTOV1_Op_phsA	Voltage presence indication instance 1 phase A	Digital Input	0 = Ok, 1 = voltage above threshold
	Base	V2.7	PrsPTOV1_Op_phsB	Voltage presence indication instance 1 phase B	Digital Input	0 = Ok, 1 = voltage above threshold
	Base	V2.7	PrsPTOV1_Op_phsC	Voltage presence indication instance 1 phase C	Digital Input	0 = Ok, 1 = voltage above threshold
	Base	V2.7	AbsPTUV2_Op_phsA	Voltage absence indication instance 2 phase A	Digital Input	0 = Ok, 1 = voltage below threshold
	Base	V2.7	AbsPTUV2_Op_phsB	Voltage absence indication instance 2 phase B	Digital Input	0 = Ok, 1 = voltage below threshold
	Base	V2.7	AbsPTUV2_Op_phsC	Voltage absence indication instance 2 phase C	Digital Input	0 = Ok, 1 = voltage below threshold
	Base	V2.7	PrsPTOV2_Op_phsA	Voltage presence indication instance 2 phase A	Digital Input	0 = Ok, 1 = voltage above threshold
	Base	V2.7	PrsPTOV2_Op_phsB	Voltage presence indication instance 2 phase B	Digital Input	0 = Ok, 1 = voltage above threshold
	Base	V2.7	PrsPTOV2_Op_phsC	Voltage presence indication instance 2 phase C	Digital Input	0 = Ok, 1 = voltage above threshold
	Base	V2.9	LPHD1_MemHealth_stVal_Warn	Memory health status	Digital Input	

LV150										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Status	Base	V1.0	PMa_MMXU1_ClcIntvPer_setVal	Calculation Interval Period	Analogue Input for Integer Setting	min	1	60		10

LV150						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Command	Base	V1.0	LLN0_ActSG1_stVal	Module select settings group 1	Digital Output	0 = ignored, 1 = select settings group 1
	Base	V1.0	LLN0_ActSG2_stVal	Module select settings group 2	Digital Output	0 = ignored, 1 = select settings group 2

LV150										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	Base	V1.0	PMr_MM XU1_A_phsA	RMS current phase A	Analogue Input	A				
	Base	V1.0	PMr_MM XU1_A_phsB	RMS current phase B	Analogue Input	A				
	Base	V1.0	PMr_MM XU1_A_phsC	RMS current phase C	Analogue Input	A				
	Base	V1.0	PMr_MM XU1_A_res	RMS current neutral (measured or calculated)	Analogue Input	A				
	Base	V1.0	PMr_MM XN1_Amp_mag	RMS current neutral (measured)	Analogue Input	A				
	Base	V1.0	PMr_MM XN2_Amp_mag	RMS current neutral (calculated)	Analogue Input	A				
	Base	V1.0	PMr_MM XU1_AvA Phs_mag	Mean RMS phase current	Analogue Input	A				
	Base	V1.0	PMr_MM XU1_PhV_phsA	RMS voltage phase A	Analogue Input	V				
	Base	V1.0	PMr_MM XU1_PhV_phsB	RMS voltage phase B	Analogue Input	V				
	Base	V1.0	PMr_MM XU1_PhV_phsC	RMS voltage phase C	Analogue Input	V				
	Base	V1.0	PMr_MM XU1_PhV_neut	RMS voltage neutral (calculated)	Analogue Input	V				
	Base	V1.0	PMr_MM XU1_AvPhV Phs_mag	Mean RMS voltage phase-N	Analogue Input	V				
	Base	V1.0	PMr_MM XU1_Hz_mag	Frequency	Analogue Input	Hz				
	Base	V1.0	PMi_MM XU1_PhV_phsA	Voltage indication phase A %	Analogue Input	%				
	Base	V1.0	PMi_MM XU1_PhV_phsB	Voltage indication phase B %	Analogue Input	%				
	Base	V1.0	PMi_MM XU1_PhV_phsC	Voltage indication phase C %	Analogue Input	%				
	Base	V1.0	PMi_MM XU1_AvPhV Phs_mag	Mean voltage indication %	Analogue Input	%				
	Base	V1.0	PMr_MM XU1_W_phsA	P Real power, phase A	Analogue Input	W				
	Base	V1.0	PMr_MM XU1_W_phsB	P Real power, phase B	Analogue Input	W				
	Base	V1.0	PMr_MM XU1_W_phsC	P Real power, phase C	Analogue Input	W				
	Base	V1.0	PMr_MM XU1_TotW_mag	P Real power, total	Analogue Input	W				
	Base	V1.0	PMr_MM XU1_VAR_phsA	Q Reactive power, phase A	Analogue Input	VAr				
	Base	V1.0	PMr_MM XU1_VAR_phsB	Q Reactive power, phase B	Analogue Input	VAr				
	Base	V1.0	PMr_MM XU1_VAR_phsC	Q Reactive power, phase C	Analogue Input	VAr				
	Base	V1.0	PMr_MM XU1_TotVAr_mag	Q Reactive power, total	Analogue Input	VAr				
	Base	V1.0	PMr_MM XU1_VA_phsA	S Apparent power, phase A	Analogue Input	VA				
	Base	V1.0	PMr_MM XU1_VA_phsB	S Apparent power, phase B	Analogue Input	VA				
	Base	V1.0	PMr_MM XU1_VA_phsC	S Apparent power, phase C	Analogue Input	VA				
	Base	V1.0	PMr_MM XU1_TotVA_mag	S Apparent power, total	Analogue Input	VA				

LV150										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	Base	V1.0	PMr_MM XU1_P F_phsA	Power factor, phase A	Analogue Input					
	Base	V1.0	PMr_MM XU1_P F_phsB	Power factor, phase B	Analogue Input					
	Base	V1.0	PMr_MM XU1_P F_phsC	Power factor, phase C	Analogue Input					
	Base	V1.0	PMr_MM XU1_TotPF_mag	True power factor, total	Analogue Input					
	Base	V1.0	PMr_MM XU1_PP V_phsAB	RMS voltage phase A to phase B	Analogue Input	V				
	Base	V1.0	PMr_MM XU1_PP V_phsBC	RMS voltage phase B to phase C	Analogue Input	V				
	Base	V1.0	PMr_MM XU1_PP V_phsCA	RMS voltage phase C to phase A	Analogue Input	V				
	Base	V1.0	PMr_MM XU1_AvPPVPhs_mag	Mean RMS voltage between phases	Analogue Input	V				
	Base	V1.0	T00MMTR1_TotWh_actVal	Total net active energy	Analogue Input	Wh				
	Base	V1.0	T00MMTR1_TotVArh_actVal	Total net reactive energy	Analogue Input	VArh				
	Base	V1.0	T00MMTR1_TotVAh_actVal	Total net apparent energy	Analogue Input	VAh				
	Base	V1.0	T00MMTR1_SupWh_actVal	Net real energy supplied	Analogue Input	Wh				
	Base	V1.0	T00MMTR1_SupVArh_actVal	Net reactive energy supplied	Analogue Input	VArh				
	Base	V1.0	T00MMTR1_DmdWh_actVal	Net real energy demand	Analogue Input	Wh				
	Base	V1.0	T00MMTR1_DmdVArh_actVal	Net reactive energy demand	Analogue Input	VArh				
	Base	V1.0	T00MMTR1_SupVArhPs_actVal	Positive reactive energy supplied	Analogue Input	VArh				
	Base	V1.0	T00MMTR1_SupVArhNg_actVal	Negative reactive energy supplied	Analogue Input	VArh				
	Base	V1.0	T00MMTR1_DmdVArhPs_actVal	Positive reactive energy demand	Analogue Input	VArh				
	Base	V1.0	T00MMTR1_DmdVArhNg_actVal	Negative reactive energy demand	Analogue Input	VArh				
	Base	V1.0	PhAMMTN1_TotWh_actVal	Net real energy, phase A	Analogue Input	Wh				
	Base	V1.0	PhAMMTN1_TotVArh_actVal	Net reactive energy, phase A	Analogue Input	VArh				
	Base	V1.0	PhAMMTN1_TotVAh_actVal	Net apparent energy, phase A	Analogue Input	VAh				
	Base	V1.0	PhBMMTN1_TotWh_actVal	Net real energy, phase B	Analogue Input	Wh				
	Base	V1.0	PhBMMTN1_TotVArh_actVal	Net reactive energy, phase B	Analogue Input	VArh				
	Base	V1.0	PhBMMTN1_TotVAh_actVal	Net apparent energy, phase B	Analogue Input	VAh				
	Base	V1.0	PhCMMTN1_TotWh_actVal	Net real energy, phase C	Analogue Input	Wh				
	Base	V1.0	PhCMMTN1_TotVArh_actVal	Net reactive energy, phase C	Analogue Input	VArh				
	Base	V1.0	PhCMMTN1_TotVAh_actVal	Net apparent energy, phase C	Analogue Input	VAh				

LV150										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	Base	V1.0	PMa_MMXU1_A_phsA	Average current phase A	Analogue Input	A				
	Base	V1.0	PMa_MMXU1_A_phsB	Average current phase B	Analogue Input	A				
	Base	V1.0	PMa_MMXU1_A_phsC	Average current phase C	Analogue Input	A				
	Base	V1.0	PMa_MMXU1_A_res	Average current neutral (calculated)	Analogue Input	A				
	Base	V1.0	PMa_MMXU1_loA_mag	Average current neutral (measured)	Analogue Input	A				
	Base	V1.0	PMa_MMXU1_AvAPhs_mag	Average of Mean current phases A,B,C	Analogue Input	A				
	Base	V1.0	PMa_MMXU1_PhV_phsA	Average voltage phase A	Analogue Input	V				
	Base	V1.0	PMa_MMXU1_PhV_phsB	Average voltage phase B	Analogue Input	V				
	Base	V1.0	PMa_MMXU1_PhV_phsC	Average voltage phase C	Analogue Input	V				
	Base	V1.0	PMa_MMXU1_PhV_neut	Average voltage neutral (calculated)	Analogue Input	V				
	Base	V1.0	PMa_MMXU1_AvPhVPhs_mag	Average of Mean voltage phases A,B,C	Analogue Input	V				
	Base	V1.0	PMa_MMXU1_W_phsA	Average P Real power, phase A	Analogue Input	W				
	Base	V1.0	PMa_MMXU1_W_phsB	Average P Real power, phase B	Analogue Input	W				
	Base	V1.0	PMa_MMXU1_W_phsC	Average P Real power, phase C	Analogue Input	W				
	Base	V1.0	PMa_MMXU1_TotW_mag	Average P Real power, total	Analogue Input	W				
	Base	V1.0	PMa_MMXU1_VAR_phsA	Average Q Reactive power, phase A	Analogue Input	VAr				
	Base	V1.0	PMa_MMXU1_VAR_phsB	Average Q Reactive power, phase B	Analogue Input	VAr				
	Base	V1.0	PMa_MMXU1_VAR_phsC	Average Q Reactive power, phase C	Analogue Input	VAr				
	Base	V1.0	PMa_MMXU1_TotVAr_mag	Average Q Reactive power, total	Analogue Input	VAr				
	Base	V1.0	PMa_MMXU1_VA_phsA	Average S Apparent power, phase A	Analogue Input	VA				
Base	V1.0	PMa_MMXU1_VA_phsB	Average S Apparent power, phase B	Analogue Input	VA					
Base	V1.0	PMa_MMXU1_VA_phsC	Average S Apparent power, phase C	Analogue Input	VA					
Base	V1.0	PMa_MMXU1_TotVA_mag	Average S Apparent power, total	Analogue Input	VA					

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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	Base	V1.0	PMndMMXU1_AvAPhs_mag	Minimum of average of Mean RMS phase current, previous day	Analogue Input	A				
	Base	V1.0	PMnwMMXU1_AvAPhs_mag	Minimum of average of Mean RMS phase current, previous week	Analogue Input	A				
	Base	V1.0	PMnmMMXU1_AvAPhs_mag	Minimum of average of Mean RMS phase current, previous month	Analogue Input	A				
	Base	V1.0	PMnyMMXU1_AvAPhs_mag	Minimum of average of Mean RMS phase current, previous year	Analogue Input	A				
	Base	V1.0	PMxdMMXU1_AvAPhs_mag	Maximum of average of Mean RMS phase current, previous day	Analogue Input	A				
	Base	V1.0	PMxwMMXU1_AvAPhs_mag	Maximum of average of Mean RMS phase current, previous week	Analogue Input	A				
	Base	V1.0	PMxmMMXU1_AvAPhs_mag	Maximum of average of Mean RMS phase current, previous month	Analogue Input	A				
	Base	V1.0	PMxyMMXU1_AvAPhs_mag	Maximum of average of Mean RMS phase current, previous year	Analogue Input	A				
	Base	V1.0	PMnmMMXU2_AvAPhs_mag	Minimum of average of Mean RMS phase current, this month	Analogue Input	A				
	Base	V1.0	PMnyMMXU2_AvAPhs_mag	Minimum of average of Mean RMS phase current, this year	Analogue Input	A				
	Base	V1.0	PMxmMMXU2_AvAPhs_mag	Maximum of average of Mean RMS phase current, this month	Analogue Input	A				
	Base	V1.0	PMxyMMXU2_AvAPhs_mag	Maximum of average of Mean RMS phase current, this year	Analogue Input	A				
	Base	V1.0	InstSTMP1_Tmp_mag	Temperature 1: instantaneous value	Analogue Input	°C				
	Base	V1.0	AvhSTMP1_Tmp_mag	Temperature 1: hourly average	Analogue Input	°C				
	Base	V1.0	InstSTMP2_Tmp_mag	Temperature 2: instantaneous value	Analogue Input	°C				
	Base	V1.0	AvhSTMP2_Tmp_mag	Temperature 2: hourly average	Analogue Input	°C				
	Base	V1.0	InstSTMP3_Tmp_mag	Temperature 3: instantaneous value	Analogue Input	°C				
	Base	V1.0	AvhSTMP3_Tmp_mag	Temperature 3: hourly average	Analogue Input	°C				
Base	V1.0	PreFitMMXU1_PhV_phsA	Last RMS voltage phase A before fault	Analogue Input	V					

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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	Base	V1.0	PreFitMMXU1_PhV_phsB	Last RMS voltage phase B before fault	Analogue Input	V				
	Base	V1.0	PreFitMMXU1_PhV_phsC	Last RMS voltage phase C before fault	Analogue Input	V				
	Base	V1.0	PreFitMMXU1_PhV_neut	Last RMS voltage neutral before fault	Analogue Input	V				
	Base	V1.0	PreFitMMXU1_AvPhVPhs_mag	Last mean RMS phase voltage before fault	Analogue Input	V				
	PQ	V1.0	PQS2MMXU1_PhV_phsA	RMS voltage phase A, 10 minute period	Analogue Input	V				
	PQ	V1.0	PQS2MMXU1_PhV_phsB	RMS voltage phase B, 10 minute period	Analogue Input	V				
	PQ	V1.0	PQS2MMXU1_PhV_phsC	RMS voltage phase C, 10 minute period	Analogue Input	V				
	PQ	V1.0	PQS2MMXU1_PhV_neut	RMS voltage neutral (calculated), 10 minute period	Analogue Input	V				
	PQ	V1.0	PQS2MMXU1_AvPhVPhs_mag	Mean RMS voltage phase-N, 10 minute period	Analogue Input	V				
	PQ	V1.0	PQS3MMXU1_PhV_phsA	RMS voltage phase A, 2 hour period	Analogue Input	V				
	PQ	V1.0	PQS3MMXU1_PhV_phsB	RMS voltage phase B, 2 hour period	Analogue Input	V				
	PQ	V1.0	PQS3MMXU1_PhV_phsC	RMS voltage phase C, 2 hour period	Analogue Input	V				
	PQ	V1.0	PQS3MMXU1_PhV_neut	RMS voltage neutral (calculated), 2 hour period	Analogue Input	V				
	PQ	V1.0	PQS3MMXU1_AvPhVPhs_mag	Mean RMS voltage phase-N, 2 hour period	Analogue Input	V				
	PQ	V1.0	PQS1MSQI1_ImbNgA_mag	Current negative sequence imbalance (I2 / I1), 150/180 cycle period	Analogue Input	%				
	PQ	V1.0	PQS2MSQI1_ImbNgA_mag	Current negative sequence imbalance (I2 / I1), 10 minute period	Analogue Input	%				
	PQ	V1.0	PQS3MSQI1_ImbNgA_mag	Current negative sequence imbalance (I2 / I1), 2 hour period	Analogue Input	%				
	PQ	V1.0	PQS1MSQI1_ImbNgV_mag	Voltage negative sequence imbalance (V2 / V1), 150/180 cycle period	Analogue Input	%				
PQ	V1.0	PQS2MSQI1_ImbNgV_mag	Voltage negative sequence imbalance (V2 / V1), 10 minute period	Analogue Input	%					

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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut	
Analog	PQ	V1.0	PQS3MSQI1_lmbNgV_mag	Voltage negative sequence imbalance (V2 / V1), 2 hour period	Analogue Input	%					
	PQ	V1.0	PQS_QVVR1_VVa_mag	Last voltage variation value	Analogue Input	V					
	PQ	V1.0	PQS_QVVR1_VvaTm_mag	Last voltage variation duration	Analogue Input	s					
	PQ	V1.0	PQS_QVVR1_AffPhs_stVal	Last voltage variation affected phases	Analogue Input		1 = phase A, 2 = phase B, 4 = phase C 3 = phase A and B, 5 = phase A and C 6 = phase B and C, 7 = phases A, B, C"				
	PQ	V1.0	PQS_MHAI1_ThdPhV_phsA	Voltage phase A total harmonic distortion	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_ThdPhV_phsB	Voltage phase B total harmonic distortion	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_ThdPhV_phsC	Voltage phase C total harmonic distortion	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_AvThdPhV_mag	Mean voltage total harmonic distortion	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_ThdA_phsA	Current phase A total harmonic distortion	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_ThdA_phsB	Current phase B total harmonic distortion	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_ThdA_phsC	Current phase C total harmonic distortion	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_AvThdA_mag	Mean current total harmonic distortion	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HPhV01_phsA_mag	Voltage phase A harmonic 1 - magnitude	Analogue Input	V					
	PQ	V1.0	PQS_MHAI1_HPhV01_phsB_mag	Voltage phase B harmonic 1 - magnitude	Analogue Input	V					
	PQ	V1.0	PQS_MHAI1_HPhV01_phsC_mag	Voltage phase C harmonic 1 - magnitude	Analogue Input	V					
	PQ	V1.0	PQS_MHAI1_HPhV01_neut_mag	Voltage neutral harmonic 1 - magnitude	Analogue Input	V					
	PQ	V1.0	PQS_MHAI1_AvHPhV01_mag	Mean voltage harmonic 1 - magnitude	Analogue Input	V					
	PQ	V1.0	PQS_MHAI1_HPhV01_phsA_ang	Voltage phase A harmonic 1 - angle	Analogue Input	deg					
	PQ	V1.0	PQS_MHAI1_HPhV01_phsB_ang	Voltage phase B harmonic 1 - angle	Analogue Input	deg					
	PQ	V1.0	PQS_MHAI1_HPhV01_phsC_ang	Voltage phase C harmonic 1 - angle	Analogue Input	deg					
PQ	V1.0	PQS_MHAI1_HPhV01_neut_ang	Voltage neutral harmonic 1 - angle	Analogue Input	deg						
PQ	V1.0	PQS_MHAI1_HPhV02_phsA	Voltage phase A harmonic 2	Analogue Input	%						



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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	PQ	V1.0	PQS_MHAI1_HPhV02_phsB	Voltage phase B harmonic 2	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV02_phsC	Voltage phase C harmonic 2	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV03_phsA	Voltage phase A harmonic 3	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV03_phsB	Voltage phase B harmonic 3	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV03_phsC	Voltage phase C harmonic 3	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV04_phsA	Voltage phase A harmonic 4	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV04_phsB	Voltage phase B harmonic 4	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV04_phsC	Voltage phase C harmonic 4	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV05_phsA	Voltage phase A harmonic 5	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV05_phsB	Voltage phase B harmonic 5	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV05_phsC	Voltage phase C harmonic 5	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV06_phsA	Voltage phase A harmonic 6	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV06_phsB	Voltage phase B harmonic 6	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV06_phsC	Voltage phase C harmonic 6	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV07_phsA	Voltage phase A harmonic 7	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV07_phsB	Voltage phase B harmonic 7	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV07_phsC	Voltage phase C harmonic 7	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV08_phsA	Voltage phase A harmonic 8	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV08_phsB	Voltage phase B harmonic 8	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV08_phsC	Voltage phase C harmonic 8	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV09_phsA	Voltage phase A harmonic 9	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV09_phsB	Voltage phase B harmonic 9	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV09_phsC	Voltage phase C harmonic 9	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HPhV10_phsA	Voltage phase A harmonic 10	Analogue Input	%				
PQ	V1.0	PQS_MHAI1_HPhV10_phsB	Voltage phase B harmonic 10	Analogue Input	%					
PQ	V1.0	PQS_MHAI1_HPhV10_phsC	Voltage phase C harmonic 10	Analogue Input	%					
PQ	V1.0	PQS_MHAI1_HPhV11_phsA	Voltage phase A harmonic 11	Analogue Input	%					
PQ	V1.0	PQS_MHAI1_HPhV11_phsB	Voltage phase B harmonic 11	Analogue Input	%					
PQ	V1.0	PQS_MHAI1_HPhV11_phsC	Voltage phase C harmonic 11	Analogue Input	%					
PQ	V1.0	PQS_MHAI1_HPhV12_phsA	Voltage phase A harmonic 12	Analogue Input	%					
PQ	V1.0	PQS_MHAI1_HPhV12_phsB	Voltage phase B harmonic 12	Analogue Input	%					

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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut	
Analog	PQ	V1.0	PQS_MHAI1_HPhV12_phsC	Voltage phase C harmonic 12	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HPhV13_phsA	Voltage phase A harmonic 13	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HPhV13_phsB	Voltage phase B harmonic 13	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HPhV13_phsC	Voltage phase C harmonic 13	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HPhV14_phsA	Voltage phase A harmonic 14	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HPhV14_phsB	Voltage phase B harmonic 14	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HPhV14_phsC	Voltage phase C harmonic 14	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HPhV15_phsA	Voltage phase A harmonic 15	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HPhV15_phsB	Voltage phase B harmonic 15	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HPhV15_phsC	Voltage phase C harmonic 15	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HA01_phsA_mag	Current phase A harmonic 1 - magnitude	Analogue Input	A					
	PQ	V1.0	PQS_MHAI1_HA01_phsB_mag	Current phase B harmonic 1 - magnitude	Analogue Input	A					
	PQ	V1.0	PQS_MHAI1_HA01_phsC_mag	Current phase C harmonic 1 - magnitude	Analogue Input	A					
	PQ	V1.0	PQS_MHAI1_HA01_neut_mag	Current neutral harmonic 1 - magnitude	Analogue Input	A					
	PQ	V1.0	PQS_MHAI1_AvHA01_mag	Mean current harmonic 1 - magnitude	Analogue Input	A					
	PQ	V1.0	PQS_MHAI1_HA01_phsA_ang	Current phase A harmonic 1 - angle	Analogue Input	deg					
	PQ	V1.0	PQS_MHAI1_HA01_phsB_ang	Current phase B harmonic 1 - angle	Analogue Input	deg					
	PQ	V1.0	PQS_MHAI1_HA01_phsC_ang	Current phase C harmonic 1 - angle	Analogue Input	deg					
	PQ	V1.0	PQS_MHAI1_HA01_neut_ang	Current neutral harmonic 1 - angle	Analogue Input	deg					
	PQ	V1.0	PQS_MHAI1_HA02_phsA_mag	Current phase A harmonic 2	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HA02_phsB_mag	Current phase B harmonic 2	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HA02_phsC_mag	Current phase C harmonic 2	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HA03_phsA	Current phase A harmonic 3	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HA03_phsB	Current phase B harmonic 3	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HA03_phsC	Current phase C harmonic 3	Analogue Input	%					
	PQ	V1.0	PQS_MHAI1_HA04_phsA	Current phase A harmonic 4	Analogue Input	%					
PQ	V1.0	PQS_MHAI1_HA04_phsB	Current phase B harmonic 4	Analogue Input	%						

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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	PQ	V1.0	PQS_MHAI1_HA04_phsC	Current phase C harmonic 4	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA05_phsA	Current phase A harmonic 5	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA05_phsB	Current phase B harmonic 5	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA05_phsC	Current phase C harmonic 5	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA06_phsA	Current phase A harmonic 6	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA06_phsB	Current phase B harmonic 6	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA06_phsC	Current phase C harmonic 6	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA07_phsA	Current phase A harmonic 7	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA07_phsB	Current phase B harmonic 7	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA07_phsC	Current phase C harmonic 7	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA08_phsA	Current phase A harmonic 8	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA08_phsB	Current phase B harmonic 8	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA08_phsC	Current phase C harmonic 8	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA09_phsA	Current phase A harmonic 9	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA09_phsB	Current phase B harmonic 9	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA09_phsC	Current phase C harmonic 9	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA10_phsA	Current phase A harmonic 10	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA10_phsB	Current phase B harmonic 10	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA10_phsC	Current phase C harmonic 10	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA11_phsA	Current phase A harmonic 11	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA11_phsB	Current phase B harmonic 11	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA11_phsC	Current phase C harmonic 11	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA12_phsA	Current phase A harmonic 12	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA12_phsB	Current phase B harmonic 12	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA12_phsC	Current phase C harmonic 12	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA13_phsA	Current phase A harmonic 13	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA13_phsB	Current phase B harmonic 13	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA13_phsC	Current phase C harmonic 13	Analogue Input	%				
PQ	V1.0	PQS_MHAI1_HA14_phsA	Current phase A harmonic 14	Analogue Input	%					
PQ	V1.0	PQS_MHAI1_HA14_phsB	Current phase B harmonic 14	Analogue Input	%					
PQ	V1.0	PQS_MHAI1_HA14_phsC	Current phase C harmonic 14	Analogue Input	%					

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CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	PQ	V1.0	PQS_MHAI1_HA15_phsA	Current phase A harmonic 15	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA15_phsB	Current phase B harmonic 15	Analogue Input	%				
	PQ	V1.0	PQS_MHAI1_HA15_phsC	Current phase C harmonic 15	Analogue Input	%				
	PQ	V1.1	PQS2MHAI1_ThdPhV_phsA	Voltage phase A total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.1	PQS2MHAI1_ThdPhV_phsB	Voltage phase B total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.1	PQS2MHAI1_ThdPhV_phsC	Voltage phase C total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.1	PQS2MHAI1_AvThdPhV_mag	Mean voltage total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.1	PQS3MHAI1_ThdPhV_phsA	Voltage phase A total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.1	PQS3MHAI1_ThdPhV_phsB	Voltage phase B total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.1	PQS3MHAI1_ThdPhV_phsC	Voltage phase C total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.1	PQS3MHAI1_AvThdPhV_mag	Mean voltage total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.1	PQS_MHAI1_ThdA_neut	Current neutral total harmonic distortion	Analogue Input	%				
	PQ	V1.1	PQS2MHAI1_ThdA_phsA	Current phase A total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.1	PQS2MHAI1_ThdA_phsB	Current phase B total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.1	PQS2MHAI1_ThdA_phsC	Current phase C total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.1	PQS2MHAI1_ThdA_neut	Current neutral total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.1	PQS2MHAI1_AvThdA_mag	Mean current total harmonic distortion - 10 minutes	Analogue Input	%				
	PQ	V1.1	PQS3MHAI1_ThdA_phsA	Current phase A total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.1	PQS3MHAI1_ThdA_phsB	Current phase B total harmonic distortion - 2 hours	Analogue Input	%				
	PQ	V1.1	PQS3MHAI1_ThdA_phsC	Current phase C total harmonic distortion - 2 hours	Analogue Input	%				
PQ	V1.1	PQS3MHAI1_ThdA_neut	Current neutral total harmonic distortion - 2 hours	Analogue Input	%					

LV150											
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut	
Analog	PQ	V1.1	PQS3MHAI1_AvThdA_mag	Mean current total harmonic distortion - 2 hours	Analogue Input	%					
	PQ	V1.1	PQS2MHAI1_HPhV01_phsA	Voltage phase A harmonic 1 - 10 minutes	Analogue Input	V					
	PQ	V1.1	PQS2MHAI1_HPhV01_phsB	Voltage phase B harmonic 1 - 10 minutes	Analogue Input	V					
	PQ	V1.1	PQS2MHAI1_HPhV01_phsC	Voltage phase C harmonic 1 - 10 minutes	Analogue Input	V					
	PQ	V1.1	PQS2MHAI1_AvHPhV01_mag	Mean voltage harmonic 1 - 10 minutes	Analogue Input	V					
	<i>For following variables, nn is a generic index for the harmonic, from 02 to 15, and X is a generic letter for the phase, A, B or C</i>										
	PQ	V1.1	PQS2MHAI1_HPhVnn_phsX	Voltage phase X harmonic nn - 10 minutes	Analogue Input	%					
	PQ	V1.1	PQS3MHAI1_HPhV01_phsA	Voltage phase A harmonic 1 - 2 hours	Analogue Input	V					
	PQ	V1.1	PQS3MHAI1_HPhV01_phsB	Voltage phase B harmonic 1 - 2 hours	Analogue Input	V					
	PQ	V1.1	PQS3MHAI1_HPhV01_phsC	Voltage phase C harmonic 1 - 2 hours	Analogue Input	V					
	PQ	V1.1	PQS3MHAI1_AvHPhV01_mag	Mean voltage harmonic 1 - 2 hours	Analogue Input	V					
	PQ	V1.1	PQS3MHAI1_HPhVnn_phsX	Voltage phase X harmonic nn - 2 hours	Analogue Input	%					
	PQ	V1.1	PQS_MHAI1_HAnn_neut (add « _mag » for nn=02)	Current neutral harmonic nn	Analogue Input	%					
	PQ	V1.1	PQS2MHAI1_HA01_phsA	Current phase A harmonic 1 - 10 minutes	Analogue Input	A					
	PQ	V1.1	PQS2MHAI1_HA01_phsB	Current phase B harmonic 1 - 10 minutes	Analogue Input	A					
	PQ	V1.1	PQS2MHAI1_HA01_phsC	Current phase C harmonic 1 - 10 minutes	Analogue Input	A					
	PQ	V1.1	PQS2MHAI1_HA01_neut	Current neutral harmonic 1 - 10 minutes	Analogue Input	A					
	PQ	V1.1	PQS2MHAI1_AvHA01_mag	Mean current harmonic 1 - 10 minutes	Analogue Input	A					
	PQ	V1.1	PQS2MHAI1_HAnn_phsX	Current phase X harmonic nn - 10 minutes	Analogue Input	%					
	PQ	V1.1	PQS2MHAI1_HAnn_neut	Current neutral harmonic nn - 10 minutes	Analogue Input	%					
	PQ	V1.1	PQS3MHAI1_HA01_phsA	Current phase A harmonic 1 - 2 hours	Analogue Input	A					
PQ	V1.1	PQS3MHAI1_HA01_phsB	Current phase B harmonic 1 - 2 hours	Analogue Input	A						
PQ	V1.1	PQS3MHAI1_HA01_phsC	Current phase C harmonic 1 - 2 hours	Analogue Input	A						

LV150										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	PQ	V1.1	PQS3MHAI1_HA01_neut	Current neutral harmonic 1 - 2 hours	Analogue Input	A				
	PQ	V1.1	PQS3MHAI1_AvHA01_mag	Mean current harmonic 1 - 2 hours	Analogue Input	A				
	PQ	V1.1	PQS3MHAI1_HA $nn$ _phs $X$	Current phase $X$ harmonic $nn$ - 2 hours	Analogue Input	%				
	PQ	V1.1	PQS3MHAI1_HA $nn$ _neut	Current neutral harmonic $nn$ - 2 hours	Analogue Input	%				

SC150											
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut	
Analog	PQ	V1.3	PQS1MMXU1_PhV_phsA	RMS voltage phase A, 150/180 cycles period	Analogue Input	V					
	PQ	V1.3	PQS1MMXU1_PhV_phsB	RMS voltage phase B, 150/180 cycles period	Analogue Input	V					
	PQ	V1.3	PQS1MMXU1_PhV_phsC	RMS voltage phase C, 150/180 cycles period	Analogue Input	V					
	PQ	V1.3	PQS1MMXU1_PhV_neut	RMS voltage neutral (calculated), 150/180 cycles period	Analogue Input	V					
	PQ	V1.3	PQS1MMXU1_AvPhVPhs_mag	Mean RMS voltage phase-N, 150/180 cycles period	Analogue Input	V					
	PQ	V1.3	PQS4MMXU1_Hz_mag	Frequency, 10 second period	Analogue Input	Hz					
	<i>For following variables, <math>nn</math> is a generic index for the harmonic, from 16 to 40, and <math>X</math> is a generic letter for the phase, A, B or C</i>										
	PQ	V1.3	PQS_MHAI1_HPhV $nn$ _phs $X$	Voltage phase $X$ harmonic $nn$	Analogue Input	%					
	PQ	V1.3	PQS2MHAI1_HPhV $nn$ _phs $X$	Voltage phase $X$ harmonic $nn$ - 10 minutes	Analogue Input	%					
	PQ	V1.3	PQS3MHAI1_HPhV $nn$ _phs $X$	Voltage phase $X$ harmonic $nn$ - 2 hours	Analogue Input	%					
	PQ	V1.3	PQS_MHAI1_HA $nn$ _phs $X$	Current phase $X$ harmonic $nn$	Analogue Input	%					
	PQ	V1.3	PQS_MHAI1_HA $nn$ _neut	Current neutral harmonic $nn$	Analogue Input	%					
	PQ	V1.3	PQS2MHAI1_HA $nn$ _phs $X$	Current phase $X$ harmonic $nn$ - 10 minutes	Analogue Input	%					
	PQ	V1.3	PQS2MHAI1_HA $nn$ _neut	Current neutral harmonic $nn$ - 10 minutes	Analogue Input	%					
	PQ	V1.3	PQS3MHAI1_HA $nn$ _phs $X$	Current phase $X$ harmonic $nn$ - 2 hours	Analogue Input	%					
PQ	V1.3	PQS3MHAI1_HA $nn$ _neut	Current neutral harmonic $nn$ - 2 hours	Analogue Input	%						

LV150										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	CM\Thermal	V1.6	PhASTMP_Tmp_mag	LV Cable connection phase A temperature	Analogue Input	°C				
	CM\Thermal	V1.6	PhBSTMP_Tmp_mag	LV Cable connection phase B temperature	Analogue Input	°C				
	CM\Thermal	V1.6	PhCSTMP_Tmp_mag	LV Cable connection phase C temperature	Analogue Input	°C				
	Base	V2,9	LPHD1_MemGdPct_mag	Memory percentage of good blocks	Analogue Input	%				

3.5 PS50

PS50						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V1.0	status	LCCH1_ChLiv_stVal	Module communication status	0 = PS50 is nor communicating with HU250 1 = PS50 is communicating with HU250
	Base	V1.0	status	LPHD1_PhyHealth_stVal_Warn	Module health warning	0 = no Minor recoverable fault 1 = Minor recoverable fault
	Base	V1.0	status	LPHD1_PhyHealth_stVal_Fail	Module health error	0 = no Major recoverable fault 1 = Major recoverable fault
	Base	V1.0	status	AcZAXN1_PwrSupAlm_stVal	Immediate AC supply OFF	0 = On; 1 = Off
	Base	V1.0	status	AcZAXN1_DIPwrSupAlm_stVal	Delayed AC supply OFF	0 = On 1 = Off delay of 30 seconds
	Base	V1.0	status	AcZAXN1_PwrSupOn_stVal	Supply input indication	1 = On 0 = Off
	Base	V1.0	status	AcZAXN1_PwrSupOv_stVal	Supply input overvoltage	1 = Overvoltage 0 = No overvoltage
	Base	V1.0	status	AcZAXN1_PwrShtDwn_stVal	Power supply shutdown	0 = No shut down 1 = shut down after x s
	Base	V1.0	status	LLN0_CfgHealth_stVal_Fail	Configuration fault	1 = Configuration fault (CRC error) 0 = Configuration is valid
	Base	V1.0	status	STMP1_Alm_stVal	Overtemperature fault	1 = Overtemperature on secondary or primary is ongoing 0 = normal operation
	Base	V1.0	status	DevZAXN1_PwrSupAlm_stVal	IED output fault	1 = A fault has occurred on IED output (short circuit, overload...) 0 = normal operation
	Base	V1.0	status	ComZAXN1_PwrSupAlm_stVal	Telecom output fault	1 = A fault has occurred on Telecom output (short circuit, overload...) 0 = normal operation
	Base	V1.0	status	MotZAXN1_PwrSupAlm_stVal	Motor output fault	1 = A fault has occurred on Motor output (short circuit, overload...) 0 = normal operation
	Base	V1.0	status	DevZAXN1_PwrSupSc_stVal	IED output short circuit	1 = 12 V IED short circuit 0 = 12 V IED no short circuit
	Base	V1.0	status	DevZAXN1_PwrSupOI_stVal	IED output overload	1 = 12 V IED overload 0 = 12 V IED no overload
	Base	V1.0	status	DevZAXN1_PwrSupUv_stVal	IED output undervoltage	1 = 12 V IED undervoltage 0 = no undervoltage
	Base	V1.0	status	DevZAXN1_PwrSupOv_stVal	IED output overvoltage	1 = 12 V IED overvoltage 0 = no overvoltage
	Base	V1.0	status	ComZAXN1_PwrSupSc_stVal	Telecom output short circuit	1 = 12 V Telecom short circuit 0 = 12 V Telecom no short circuit
	Base	V1.0	status	ComZAXN1_PwrSupOI_stVal	Telecom output overload	1 = 12 V Telecom overload 0 = 12 V Telecom no overload
	Base	V1.0	status	ComZAXN1_PwrSupOc_stVal	Telecom output overcurrent	1 = 12 V Telecom current cross max current threshold 0 = No fault



PS50						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V1.0	ComZAXN1_PwrSupUv_stVal	Telecom output undervoltage	Digital Input	1 = 12 V Telecom undervoltage 0 = no undervoltage
	Base	V1.0	ComZAXN1_PwrSupOv_stVal	Telecom output overvoltage	Digital Input	1 = 12 V Telecom overvoltage 0 = no overvoltage
	Base	V1.0	MotZAXN1_PwrSupSc_stVal	Motor output short circuit	Digital Input	1 = 24/48 V short circuit 0 = 24/48 V no short circuit
	Base	V1.0	MotZAXN1_PwrSupOl_stVal	Motor output overload	Digital Input	1 = 24/48 V Overload 0 = 24/48 V Telecom no overload
	Base	V1.0	MotZAXN1_PwrSupOc_stVal	Motor output overcurrent	Digital Input	1 = 24/48 V Motor current cross max current threshold 0 = No fault
	Base	V1.0	MotZAXN1_PwrSupUv_stVal	Motor output undervoltage	Digital Input	1 = Motor output undervoltage 0 = OK
	Base	V1.0	MotZAXN1_PwrSupOv_stVal	Motor output overvoltage	Digital Input	1 = Motor output overvoltage 0 = no overvoltage
	Base	V1.0	MotZAXN1_PwrSupLok_stVal	Motor output lock out	Digital Input	1 = Motor output lock out 0 = OK
	Base	V1.0	ZBAT1_BatHealth_stVal	Battery fault	Digital Input	0 = Operational 1 = Disconnect or Out of Order
	Base	V1.0	ZBAT1_BatIso_stVal	Battery disconnected	Digital Input	0 = Connected 1 = Disconnected
	Base	V1.0	ZBAT1_Cha_stVal	Battery charging	Digital Input	1 = Battery is under charge process 0 = Battery is not charging
	Base	V1.0	ZBAT1_FltInd_general	Battery charger floating	Digital Input	1 = Battery is in floating mode 0 = Battery is not in float mode
	Base	V1.0	ZBAT1_Dsch_stVal	Battery discharging	Digital Input	1 = Battery is discharging 0 = Battery is not discharging
	Base	V1.0	ZBAT1_BatLo_stVal	Battery low	Digital Input	0 = OK 1 = Battery low
	Base	V1.0	ZBAT1_DDschInd_stVal	Battery deep discharge	Digital Input	1 = Battery deep discharge threshold has been reached 0 = Battery is above deep discharge threshold
	Base	V1.0	ZBAT1_BatTest_stVal	Battery test running	Digital Input	0 = Battery test inactive, 1 = Battery test active
	Base	V1.0	ZBAT1_ChaFlt_stVal	Battery charger fault	Digital Input	0 = Operational 1 = Charger fault is detected

PS50						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Command	Base	V1.0	LLN0_PwrShtDwn_stVal	General shutdown	Digital Output	
	Base	V1.0	ZBAT1_BatTestCtl_stVal	Battery Test execute	Digital Output	
	Base	V1.0	LLN0_Restart_stVal	Restart all Output	Digital Output	
	Base	V1.0	LLN0_Reboot_stVal	Reboot PS50	Digital Output	
	Base	V1.0	LLN0_RsTmpMnMx_stVal	Reset temperature statistics	Digital Output	
	Base	V1.0	LLN0_CfgDef_stVal	Reload default settings	Digital Output	
	Base	V1.0	DevZAXN1_PwrSupOff_stVal	IED output power OFF	Digital Output	
	Base	V1.0	DevZAXN1_PwrSupOn_stVal	IED output power ON	Digital Output	
	Base	V1.0	ComZAXN1_PwrSupOff_stVal	Telecom power output OFF	Digital Output	
	Base	V1.0	ComZAXN1_PwrSupOn_stVal	Telecom power output ON	Digital Output	
	Base	V1.0	MotZAXN1_PwrSupOff_stVal	Motor output power OFF	Digital Output	
	Base	V1.0	MotZAXN1_PwrSupOn_stVal	Motor output power ON	Digital Output	

PS50										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Analog	Base	V1.0	AcZAXN1_Vol_mag	Supply Input RMS voltage	Analogue Input	V	0	440	0,1	
	Base	V1.0	DevZAXN1_Vol_mag	IED output voltage	Analogue Input	V	0	16	0,1	
	Base	V1.0	DevZAXN1_Amp_mag	IED output current	Analogue Input	A	0	10	0,1	
	Base	V1.0	ComZAXN1_Vol_mag	Telecom output voltage	Analogue Input	V	0	16	0,1	
	Base	V1.0	ComZAXN1_Amp_mag	Telecom output current	Analogue Input	A	0	10	0,1	
	Base	V1.0	MotZAXN1_Vol_mag	Motor output voltage	Analogue Input	V	0	60	0,1	
	Base	V1.0	MotZAXN1_Amp_mag	Motor output current	Analogue Input	A	0	45	0,1	
	Base	V1.0	ZBAT1_Vol_mag	Battery voltage	Analogue Input	V	0	16	0,1	
	Base	V1.0	ZBAT1_Amp_mag	Battery current	Analogue Input	A	-70	7	0,1	
	Base	V1.0	ZBAT1_ChaLevInd_mag	Battery charge level indicator	Analogue Input	%	0	100	0,1	
	Base	V1.0	STMP1_Tmp_mag	Battery temperature	Analogue Input	°C	-40	85		
	Base	V1.0	STMP1_TmpMin_mag	Battery temperature min	Analogue Input	°C	-40	85		
	Base	V1.0	STMP1_TmpMax_mag	Battery temperature max	Analogue Input	°C	-40	85		
	Base	V1.0	ZBAT1_CapDsch_mag	Last battery capacity discharge	Analogue Input	A/h	0	38	0,1	
	Base	V1.0	ZBAT1_IntRMes_mag	Battery actual internal resistance	Analogue Input	mOhm	0	300	0,1	
	Base	V1.0	ZBAT1_ChaTms_mag	Last battery charging time	Analogue Input	s	1	130000		
	Base	V1.0	ZBAT1_DschTms_mag	Last battery discharging time	Analogue Input	s	1	130000		
	Base	V1.0	ZBAT1_BakUpTms_mag	Back up time left	Analogue Input	s	1	130000		

PS50										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale/ Echelle	Default/ Par défaut
Setpoint	Base	V1.0	AcPTOV1_LnEna_setVal	Supply input indication enable	Boolean Setting		0 = Deactivated	1 = Activated		1
	Base	V1.0	AcPTOV1_RsVal_setVal	Supply input indication absence threshold	Integer Setting	V	50	240		60
	Base	V1.0	AcPTOV1_StrVal_setMag	Supply input indication presence threshold	Integer Setting	V	50	240		70
	Base	V1.0	AcPTOV1_RsDITmms_setVal	Supply input indication absence timer	Integer Setting	ms	20	2000		40
	Base	V1.0	AcPTOV1_OpDITmms_setVal	Supply input indication presence timer	Integer Setting	ms	20	2000		40
	Base	V1.0	ComPTOC1_LnEna_setVal	Telecom output max current enable	Boolean Setting		0 = Deactivated	1 = Activated		1
	Base	V1.0	ComPTOC1_StrVal_setMag	Telecom output max current threshold	Integer Setting	A	0,2	4	0,1	1
	Base	V1.0	ComPTOC1_OpDITmms_setVal	Telecom output max current timer	Integer Setting	s	1	300		180
	Base	V1.0	ZBAT1_TstEna_setVal	Battery automatic test enable	Boolean Setting		0 = Deactivated	1 = Activated		1
	Base	V1.0	ZBAT1_TstIntTmd_setVal	Battery automatic test interval	Integer Setting	day	1	100		1
	Base	V1.0	ZBAT1_TstRtryCnt_setVal	Battery automatic test retries count	Integer Setting		1	9		2
	Base	V1.0	ZBAT1_TstRtryTmh_setVal	Battery automatic test retries interval	Integer Setting	h	1	24		12
	Base	V1.0	ZBAT1_IntRMax_setVal	Battery test AC internal maximum resistance	Integer Setting	mOhm	30	300		40
	Base	V1.0	ZBAT1_Type_setVal	Battery type	Integer Setting		0 = Manual 1 = 24 Ah 2 = 48 Ah			1
	Base	V1.0	ZBAT1_CapAH_setVal	Battery nominal capacity	Integer Setting	Ah	14	48	0,1	24
	Base	V1.0	ZBAT1_BakUpEna_setVal	Backup time enable	Boolean Setting		0 = Deactivated	1 = Activated		1
Base	V1.0	LLN0_BakUpMaxTmh_setVal	Backup time duration	Integer Setting	h	1	16		16	

3.6 Zigbee

Zigbee						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V1.0	ZgbLCCH1_ChCfg_stVal	Zigbee interface 1 configured	Digital Input	0 = No modem dial-up is configured on slot 1 1 = A modem dial-up is configured on slot 1
	Base	V1.0	ZgbLCCH2_ChCfg_stVal	Zigbee interface 2 configured	Digital Input	0 = No modem dial-up is configured on slot 1 1 = A modem dial-up is configured on slot 1
	Base	V1.0	LCCH1_ChLiv_stVal	Zigbee network status	Digital Input	
	CL110	V1.0	\$ZONE\$CL01_Online	\$ZONE\$ Environmental sensor online	Digital Input	
	CL110	V1.0	\$ZONE\$CL01_Paired	\$ZONE\$ Environmental sensor paired	Digital Input	
	CL110	V1.0	\$ZONE\$CL01_RSSI	\$ZONE\$ Environmental sensor signal strength	Digital Input	
	CL110CP	V1.0	\$ZONE\$CL02_Online	\$ZONE\$ Cold point sensor online	Digital Input	
	CL110CP	V1.0	\$ZONE\$CL02_Paired	\$ZONE\$ Cold point sensor paired	Digital Input	
	CL110CP	V1.0	\$ZONE\$CL02_RSSI	\$ZONE\$ Cold point sensor signal strength	Digital Input	
	TH110	V1.0	\$ZONE\$\$LOC\$ASTMP_Online	\$ZONE\$ \$LOC\$ Thermal sensor phase A online	Digital Input	
	TH110	V1.0	\$ZONE\$\$LOC\$ASTMP_Paired	\$ZONE\$ \$LOC\$ Thermal sensor phase A paired	Digital Input	
	TH110	V1.0	\$ZONE\$\$LOC\$ASTMP_RSSI	\$ZONE\$ \$LOC\$ Thermal sensor phase A signal strength	Digital Input	
	TH110	V1.0	\$ZONE\$\$LOC\$BSTMP_Online	\$ZONE\$ \$LOC\$ Thermal sensor phase B online	Digital Input	
	TH110	V1.0	\$ZONE\$\$LOC\$BSTMP_Paired	\$ZONE\$ \$LOC\$ Thermal sensor phase B paired	Digital Input	
	TH110	V1.0	\$ZONE\$\$LOC\$BSTMP_RSSI	\$ZONE\$ \$LOC\$ Thermal sensor phase B signal strength	Digital Input	
	TH110	V1.0	\$ZONE\$\$LOC\$CSTMP_Online	\$ZONE\$ \$LOC\$ Thermal sensor phase C online	Digital Input	
	TH110	V1.0	\$ZONE\$\$LOC\$CSTMP_Paired	\$ZONE\$ \$LOC\$ Thermal sensor phase C paired	Digital Input	
	TH110	V1.0	\$ZONE\$\$LOC\$CSTMP_RSSI	\$ZONE\$ \$LOC\$ Thermal sensor phase C signal strength	Digital Input	

Zigbee										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale / Echel le	Default / Par défaut
Analog	CL110	V1.0	\$ZONE\$CL01_BatVol_mag	\$ZONE\$ Environmental sensor battery voltage	Analogue Input	V				
	CL110	V1.0	\$ZONE\$CL01_Tmp	\$ZONE\$ Environmental sensor measured temperature	Analogue Input	°C				
	CL110	V1.0	\$ZONE\$CL01_Hum	\$ZONE\$ Environmental sensor relative humidity	Analogue Input	%				
	CL110CP	V1.0	\$ZONE\$CL02_BatVol_mag	\$ZONE\$ Cold point sensor battery voltage	Analogue Input	V				
	CL110CP	V1.0	\$ZONE\$CL02_TmpCP	\$ZONE\$ Cold point sensor measured temperature	Analogue Input	°C				
	TH110	V1.0	\$ZONE\$\$LOC\$ASTMP_IntnTmp	\$ZONE\$ \$LOC\$ Thermal sensor phase A internal temperature	Analogue Input	°C				
	TH110	V1.0	\$ZONE\$\$LOC\$ASTMP_Tmp	\$ZONE\$ \$LOC\$ Thermal sensor phase A measured temperature	Analogue Input	°C				
	TH110	V1.0	\$ZONE\$\$LOC\$BSTMP_IntnTmp	\$ZONE\$ \$LOC\$ Thermal sensor phase B internal temperature	Analogue Input	°C				
	TH110	V1.0	\$ZONE\$\$LOC\$BSTMP_Tmp	\$ZONE\$ \$LOC\$ Thermal sensor phase B measured temperature	Analogue Input	°C				
	TH110	V1.0	\$ZONE\$\$LOC\$CSTMP_IntnTmp	\$ZONE\$ \$LOC\$ Thermal sensor phase C internal temperature	Analogue Input	°C				
	TH110	V1.0	\$ZONE\$\$LOC\$CSTMP_Tmp	\$ZONE\$ \$LOC\$ Thermal sensor phase C measured temperature	Analogue Input	°C				

3.7 VIP

VIP						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Status	Base	V1.0	LCCH1_ChLiv_stVal	Module communication status	Digital Input	0: Device is not communicating with HU250 1: Device is communicating with HU250
	Base	V1.0	LLN0_ActSG_stVal	Active setting group	Digital Input	
	Base	V1.0	LPHD1_PhyHealth_stVal_Warn	Physical device health warning	Digital Input	
	Base	V1.0	LPHD1_PhyHealth_stVal_Fail	Physical device health error	Digital Input	
	Base	V1.0	ExtPTRC1_Tr_general	Tripping by external input	Digital Input	
	Base	V1.0	GenPTRC1_Tr_general	Tripping in progress	Digital Input	
	Base	V1.0	TstPTRC1_Tr_general	Tripping by test menu	Digital Input	
	Base	V1.0	GenPTRC1_TrInd_stVal	Trip indication (latched)	Digital Input	
	Base	V1.0	PhPTOC1_Op_general	Protection 50-51 delayed l> set point	Digital Input	
	Base	V1.0	PhPTOC2_Op_general	Protection 50-51 delayed l>> set point	Digital Input	
	Base	V1.0	PhPTOC3_Op_general	Protection 50-51 delayed l>>> set point	Digital Input	
	Base	V1.0	PhPTOC1_Str_general	Protection 50-51 pick-up l> set point	Digital Input	
	Base	V1.0	PhPTOC2_Str_general	Protection 50-51 pick-up l>> set point	Digital Input	
	Base	V1.0	PhPTOC3_Str_general	Protection 50-51 pick-up l>>> set point	Digital Input	
	Base	V1.0	EfPTOC1_Op_general	Protection 50N-51N delayed lo> set point	Digital Input	
	Base	V1.0	EfPTOC2_Op_general	Protection 50N-51N delayed lo>> set point	Digital Input	
	Base	V1.0	EfPTOC1_Str_general	Protection 50N-51N pick-up lo> set point	Digital Input	
	Base	V1.0	EfPTOC2_Str_general	Protection 50N-51N pick-up lo>> set point	Digital Input	
	Base	V1.0	PhPTOC1_OpCnt_stVal	Number of trips due to phase overcurrent	Counter	
	Base	V1.0	EfPTOC1_OpCnt_stVal	Number of trips due to earth overcurrent	Counter	
Base	V1.0	PTTR1_OpCnt_stVal	Number of trips due to thermal overload	Counter		
Base	V1.0	ExtPTRC1_OpCnt_stVal	Number of trips due to external tripping	Counter		

VIP						
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Bit or enumeration Value Liste de valeurs ou bits
Command	Base	V1.0	LLN0_ActSG1_stVal	Select settings group 1	Digital Output	0 = ignored, 1 = select settings group 1
	Base	V1.0	LLN0_ActSG2_stVal	Select settings group 2	Digital Output	0 = ignored, 1 = select settings group 2
	Base	V1.0	LLN0_DmdARs_stVal	Reset peak demand current values	Digital Output	
	Base	V1.0	GenPTRC1_TrIndRs_stVal	Reset latched trip indication	Digital Output	

VIP										
CoreDb type/ Type CoreDb	Option	Software/ Logiciel	Point name/ Nom de la donnée	Point description/ Description de la donnée	SCADA Object Type/ Type d'objet SCADA	Unit/ Unité	Range Min/ Valeur min	Range Max/ Valeur Max	Scale / Echel le	Default / Par défaut
Analog	Base	V1.0	PMr_MMXU1_A_phsA	RMS current phase A	Analogue Input	A			0,1	
	Base	V1.0	PMr_MMXU1_A_phsB	RMS current phase B	Analogue Input	A			0,1	
	Base	V1.0	PMr_MMXU1_A_phsC	RMS current phase C	Analogue Input	A			0,1	
	Base	V1.0	PMr_MMXU1_A_res	RMS current residual	Analogue Input	A			0,1	
	Base	V1.0	PMx_MMXU1_A_phsA	Peak demand current phase A	Analogue Input	A			0,1	
	Base	V1.0	PMx_MMXU1_A_phsB	Peak demand current phase B	Analogue Input	A			0,1	
	Base	V1.0	PMx_MMXU1_A_phsC	Peak demand current phase C	Analogue Input	A			0,1	







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