

SMARTDAC+ Data Acquisition System GM



The SMARTDAC+ GM data acquisition system is a new-generation data logger that features a new structure to allow its modules to be easily attached and detached, a function that enables communication with mobile devices via Bluetooth, etc., achieving excellent maintainability and operability. The GM can collect and record up to 420 analog signals such as temperature, voltage, current, flow rates, and pressure within 100 ms (minimum).



MAJOR FEATURES

- Flexibly responding to changes in the number of channels

As shown in Figure 1, Yokogawa's original block structure of the GM has no base plate and enables its modules to be directly connected to each other. Modules can also be replaced from the front, which enhances maintainability. One GM can directly connect with up to 10 modules allowing up to 100 analog inputs. By using multiple subunits, one GM can connect with up to 42 modules, allowing data collection of up to 420 analog inputs.

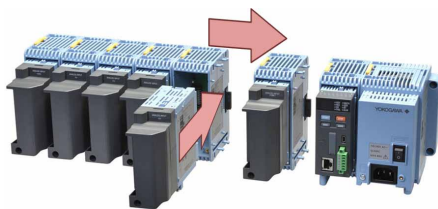


Figure 1 Originally designed block structure

- Easily accessed through a web browser

Because the SMARTDAC+ GM has a web server function, parameter settings for data acquisition and real-time monitoring of data can be easily performed on a web browser on a PC as shown in Figure 2 without using dedicated software.



Figure 2 Web browser screens for parameter setting and real-time data monitoring

- Effective use of mobile devices

The SMARTDAC+ GM supports Bluetooth communication as an option. Parameter setting and data monitoring can be performed on an Android tablet or a smart phone as shown in Figure 3 by using a dedicated application software.

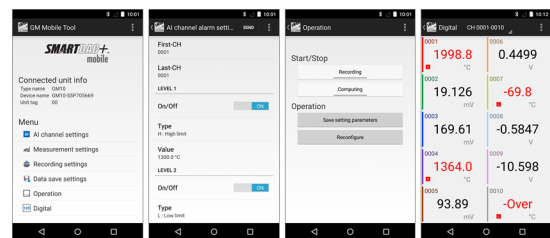


Figure 3 Examples of application software screen on Android

MAJOR SPECIFICATIONS

Items	Specifications
The number of input and output channels	Up to 500 (analog inputs: 420)
The shortest measurement interval	100 ms
The number of computation channels	200 (option)
The number of communication channels	Max. 500 (option)
Internal memory	Max. 1.2 GB
External memory	SD/SDHC card (max. 32 GB)
Data format	Binary or text
Communication interface	Ethernet, USB, RS-422/485 (option), Bluetooth (option)
Ethernet communication functions	Web, FTP, E-mail, SNMP, Modbus, etc.
Ambient temperature range	-20 to 60 °C (-20 to 50 °C under certain conditions)

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