

Systems Integration

Veeder-Root Driver and Veeder-Root Enterprise Driver: Tank Monitor TLS Controllers

System

Table 1. System Point Map. Application 5231.

Point	Type	Description	Range/Units ^{a,b,c,d}
1	LAI	Address Point (Read Only)	–
2	LAI	Application Point (Read Only)	–
3	LDI	Communication Failure Point	Normal/Fail
4	LDI	No Alarms or Warnings present	Normal/Fail
5	LDI	Printer Out of Paper	Normal/Fail
6	LDI	Printer Error	Normal/Fail
7	LDI	EEPROM Configuration Error	Normal/Fail
8	LDI	Battery Off	Normal/Fail
9	LDI	Too Many Tanks	Normal/Fail
10	LDI	System Security Warning	Normal/Fail
11	LDI	ROM Revision Warning	Normal/Fail
12	LDI	Remote Display Communications Error	Normal/Fail
13	LDI	Auto Dial Error	Normal/Fail
14	LDI	Protective Key Error	Normal/Fail
15	LDI	Tank Test Shutdown Warning	Normal/Fail
16	LDI	Protective Cover Alarm	Normal/Fail
17	LDI	BIR Shift Close Pending	Normal/Fail
18	LDI	BIR Daily Closing Pending	Normal/Fail
19	LDI	PC/H8 Revision Warning	Normal/Fail
20	LDI	System Self Test Error	Normal/Fail
21	LDI	System Clock Incorrect Warning	Normal/Fail
22	LDI	System Device Poll Timeout	Normal/Fail
23	LDI	Auto Dial Failed	Normal/Fail

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Table 1. System Point Map. Application 5231. (continued)

Point	Type	Description	Range/Units^{a,b,c,d}
24	LDI	BIR Threshold Alarm	Normal/Fail
25	LDI	BIR Close Shift Warning	Normal/Fail
19	LDI	PC/H8 Revision Warning	Normal/Fail
20	LDI	System Self Test Error	Normal/Fail
26	LDI	BIR Close Daily Warning	Normal/Fail
30	LDO	Reset and Acknowledge Alarms and Warnings	Normal/Reset
31	LAI	Input Buffer Exceeds 75%	OK/Warning
32	LDI	Buffer Overflow	Normal/Alarm
33	LAI	Maximum Bytes Used in Last Scan Cycle	–
34	LDO	Automatically Flush Buffer When 75% is Reached	Off/On
40	LAO	IP Port	–
41	LAO	IP Address First Byte	–
42	LAO	IP Address Second Byte	–
43	LAO	IP Address Third Byte	–
44	LAO	IP Address Fourth Byte	–
45	LAO	Ethernet Response Interval	–
46	LAO	Ethernet Poll Delay	–
50 ^d	LAO	Pass Code (If Security is Enabled)	–
51 ^d	LAO	Pass Code (If Security is Enabled)	–
52 ^d	LAO	Pass Code (If Security is Enabled)	–
53 ^d	LAO	Pass Code (If Security is Enabled)	–
54 ^d	LAO	Pass Code (If Security is Enabled)	–
55 ^d	LAO	Pass Code (If Security is Enabled)	–
<p>^a Values noted for LDIs and LDOs are in the following format: OFF text/ON text.</p> <p>^b This column indicates the value/range or engineering units or both if known.</p> <p>^c The default English value is not italicized. An italicized entry indicates an SI value.</p> <p>^d Value for ASCII character must be in decimal form.</p>			

In-Tank Values

Table 2. In-Tank Values Point Map. Application 5232.

Point	Type	Description	Range/Units ^{a,b,c}
1	LAI	Address Point (Read Only)	–
2	LAI	Application Point (Read Only)	–
3	LDI	Tank Setup Data Warning	OK/Warnng
4	LDI	Tank Leak Alarm	Normal/Alarm
5	LDI	Tank High Water Alarm	Normal/Alarm
6	LDI	Tank Overfill Alarm	Normal/Alarm
7	LDI	Low Product Alarm	Normal/Alarm
8	LDI	Tank Theft Alarm	Normal/Alarm
9	LDI	Tank High Limit Alarm	Normal/Alarm
10	LDI	Tank Invalid Height Alarm	Normal/Alarm
11	LDI	Tank Probe Out Alarm	Normal/Alarm
12	LDI	Tank High Water Warning	OK/Warnng
13	LDI	Tank Delivery Required Warning	OK/Warnng
14	LDI	Tank Maximum Level Alarm	Normal/Alarm
15	LDI	Tank Gross Leak Test Alarm	Normal/Alarm
16	LDI	Tank Periodic Leak Test Alarm	Normal/Alarm
17	LDI	Tank Annual Leak Test Alarm	Normal/Alarm
18	LDI	Tank Periodic Test Warning	OK/Warnng
19	LDI	Tank Annual Test Warning	OK/Warnng
20	LDI	Tank Periodic Test Warning	Normal/Alarm
21	LDI	Tank Annual Test Alarm	Normal/Alarm
22	LDI	Tank Leak Test Active	OK/Warnng
23	LDI	Tank No CSLD Idle Time Warning	OK/Warnng
24	LDI	Tank Siphon Break Active	Off/On
25	LDI	Tank CSLD Rate Increase Warning	OK/Warnng
26	LDI	Tank AccuChart Calibration Warning	OK/Warnng
27	LDI	Tank HRM Reconciliation Warning	OK/Warnng
28	LDI	Tank HRM Reconciliation Alarm	Normal/Alarm
29	LDI	Tank Cold Temperature Warning	OK/Warnng
30	LDI	Delivery in Progress	Off/On
31	LDI	Leak Test in Progress	Off/On
32	LDI	Invalid Fuel Height	Normal/Alarm

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Table 2. In-Tank Values Point Map. Application 5232. (continued)

Point	Type	Description	Range/Units^{a,b,c}
33	LAI	In-Tank Volume	gal L
34	LAI	In-Tank TC Volume	gal L
35	LAI	In-Tank Ullage	gal L
36	LAI	In-Tank Height	in mm
37	LAI	In-Tank Water	in mm
38	LAI	In-Tank Temperature	°F °C
39	LAI	In-Tank Water Volume	gal L
40	LAI	Delivery Starting Date	yymmdd
41	LAI	Delivery Starting Time	hhmm
42	LAI	Delivery End Date	yymmdd
43	LAI	Delivery End Time	hhmm
44	LAI	Delivery Starting Volume	gal L
45	LAI	Delivery Starting TC Volume	gal L
46	LAI	Delivery Starting Water	in mm
47	LAI	Delivery Starting Temperature	°F °C
48	LAI	Delivery End Volume	gal L
49	LAI	Delivery End TC Volume	gal L
50	LAI	Delivery End Water	in mm
51	LAI	Delivery End Temperature	°F °C
52	LAI	Delivery Start Height	in mm
53	LAI	Delivery End Height	in mm
60	LAI	In-Tank Leak Test Result Type	0 = 0.2 gph 1 = 0.1 gph 2 = Gross Test
61	LAI	In-Tank Leak Manifold Status	–

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Table 2. In-Tank Values Point Map. Application 5232. (continued)

Point	Type	Description	Range/Units^{a,b,c}
62	LAI	In-Tank Leak Test Start Date	yymmdd
63	LAI	In-Tank Leak Test Start Time	hhmm
64	LAI	In-Tank Leak Test Result	0 = Fail 1 = Pass
65	LAI	In-Tank Leak Test Rate	gph Lph
66	LAI	In-Tank Leak Test Duration	hr
67	LAI	In-Tank Leak Test Volume	gal L
70	LAI	CSLD Results	1 = Pass 2 = Fail 3 = No Results Available 4 = Invalid 5 = Incr 6 = Warn
80	LAI	Days of Fuel Remaining	days
81	LAI	Present Inventory	gal L
82	LAI	Present 95% Ullage	gal L
83	LAI	Average Sale on Sunday	gal L
84	LAI	Average Sale on Monday	gal L
85	LAI	Average Sale on Tuesday	gal L
86	LAI	Average Sale on Wednesday	gal L
87	LAI	Average Sale on Thursday	gal L
88	LAI	Average Sale on Friday	gal L
89	LAI	Average Sale on Saturday	gal L
90	LDO	Clear Delivery History	Normal/Reset
91	LDI	Tank Setup Data Warning	OK/Warnng
92	LDI	Tank Leak Alarm	Normal/Alarm
93	LDI	Tank High Water Alarm	Normal/Alarm
94	LDI	Tank Overfill Alarm	Normal/Alarm
95	LDI	Low Product Alarm	Normal/Alarm
96	LDI	Tank Theft Alarm	Normal/Alarm

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Table 2. In-Tank Values Point Map. Application 5232. (continued)

Point	Type	Description	Range/Units^{a,b,c}
97	LDI	Tank High Limit Alarm	Normal/Alarm
98	LDI	Tank Invalid Height Alarm	Normal/Alarm
99	LDI	Tank Probe Out Alarm	Normal/Alarm
100	LDI	Tank High Water Warning	OK/Warng
101	LDI	Tank Delivery Required Warning	OK/Warng
102	LDI	Tank Maximum Level Alarm	Normal/Alarm
103	LDI	Tank Gross Leak Test Alarm	Normal/Alarm
104	LDI	Tank Periodic Leak Test Alarm	Normal/Alarm
105	LDI	Tank Annual Leak Test Alarm	Normal/Alarm
106	LDI	Tank Periodic Test Warning	OK/Warng
107	LDI	Tank Annual Test Warning	OK/Warng
108	LDI	Tank Periodic Test Warning	Normal/Alarm
109	LDI	Tank Annual Test Alarm	Normal/Alarm
110	LDI	Tank Leak Test Active	OK/Warng
111	LDI	Tank No CSLD Idle Time Warning	OK/Warng
112	LDI	Tank Siphon Break Active	Off/On
113	LDI	Tank CSLD Rate Increase Warning	OK/Warng
114	LDI	Tank AccuChart Calibration Warning	OK/Warng
115	LDI	Tank HRM Reconciliation Warning	OK/Warng
116	LDI	Tank HRM Reconciliation Alarm	Normal/Alarm
117	LDI	Tank Cold Temperature Warning	OK/Warng
118	LAI	In-Tank Leak Test Start Date	yymmdd
119	LAI	In-Tank Leak Test Start Time	hhmm
120	LAI	In-Tank Leak Test Duration	hr
121	LAI	In-Tank Leak Test Start Temp	°F °C
122	LAI	In-Tank Leak Test End Temp	°F °C
123	LAI	In-Tank Leak Test Start Volume	gal <i>L</i>
124	LAI	In-Tank Leak Test Ending Rate	gph <i>Lph</i>

^a Values noted for LDIs and LDOs are in the following format: OFF text/ON text.

^b This column indicates the value/range or engineering units or both if known.

^c The default English value is not italicized. An italicized entry indicates an SI value.

Leak Test Values

Table 3. Leak Test Values Point Map. Application 5233.

Point	Type	Description	Range/Units ^{a,b,c}
1	LAI	Address Point (Read Only)	–
2	LAI	Application Point (Read Only)	–
3	LDI	VLLD Setup Data Warning	OK/Warn
4	LDI	VLLD Self-test Alarm	Normal/Alarm
5	LDI	VLLD Shutdown Alarm	Normal/Alarm
6	LDI	VLLD Leak Alarm	Normal/Alarm
7	LDI	VLLD Self-test Warning	OK/Warn
8	LDI	VLLD Continuous Pump On	On/Off
9	LDI	VLLD Gross Line Test Alarm	Normal/Alarm
10	LDI	VLLD Gross Self-test Alarm	Normal/Alarm
11	LDI	VLLD Gross Pump Test Alarm	Normal/Alarm
12	LDI	VLLD Gross Pump Self-test Alarm	Normal/Alarm
13	LDI	VLLD Periodic Test Warning	OK/Warn
14	LDI	VLLD Annual Test Warning	OK/Warn
15	LDI	VLLD Periodic Test Alarm	Normal/Alarm
16	LDI	VLLD Annual Test Alarm	Normal/Alarm
17	LDI	VLLD Periodic Line Test Alarm	Normal/Alarm
18	LDI	VLLD Periodic Self-test Alarm	Normal/Alarm
19	LDI	VLLD Periodic Pump Test Alarm	Normal/Alarm
20	LDI	VLLD Periodic Pump Self-test Alarm	Normal/Alarm
21	LDI	VLLD Annual Line Test Alarm	Normal/Alarm
22	LDI	VLLD Annual Self-test Alarm	Normal/Alarm
23	LDI	VLLD Annual Pump Test Alarm	Normal/Alarm
24	LDI	VLLD Annual Pump Self-test Alarm	Normal/Alarm
25	LDI	VLLD Pressure Warning	OK/Warn
26	LDI	VLLD Pressure Alarm	Normal/Alarm
27	LDI	VLLD Gross Fault Alarm	Normal/Alarm
28	LDI	VLLD Periodic Fault Alarm	Normal/Alarm
29	LDI	VLLD Annual Fault Alarm	Normal/Alarm
30	LDI	VLLD Fuel Out Alarm	Normal/Alarm
31	LDI	PLLD Setup Data Warning	OK/Warn
32	LDI	PLLD Gross Test Fail Alarm	Normal/Alarm
33	LDI	PLLD Annual Test Fail Alarm	Normal/Alarm
34	LDI	PLLD Periodic Test Warning	OK/Warn

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Table 3. Leak Test Values Point Map. Application 5233. (continued)

Point	Type	Description	Range/Units ^{a,b,c}
35	LDI	PLLD Periodic Test Alarm	Normal/Alarm
36	LDI	PLLD Sensor Open Alarm	Normal/Alarm
37	LDI	PLLD High Pressure Alarm	Normal/Alarm
38	LDI	PLLD Shutdown Alarm	Normal/Alarm
39	LDI	PLLD High Pressure Warning	OK/Warn
40	LDI	PLLD Continuous Pump On Warning	Off/On
41	LDI	PLLD Periodic Test Fail Alarm	Normal/Alarm
42	LDI	PLLD Annual Test Warning	OK/Warn
43	LDI	PLLD Annual Test Alarm	Normal/Alarm
44	LDI	WPLLD Setup Data Warning	OK/Warn
45	LDI	WPLLD Gross Test Fail Alarm	Normal/Alarm
46	LDI	WPLLD Periodic Test Fail Alarm	Normal/Alarm
47	LDI	WPLLD Periodic Test Warning	OK/Warn
48	LDI	WPLLD Periodic Test Alarm	Normal/Alarm
49	LDI	WPLLD Sensor Open Alarm	Normal/Alarm
50	LDI	WPLLD Communications Alarm	Normal/Alarm
51	LDI	WPLLD Shutdown Alarm	Normal/Alarm
52	LDI	WPLLD Continuous Pump On Warning	OK/Warn
53	LDI	WPLLD Annual Test Fail Alarm	Normal/Alarm
54	LDI	WPLLD Annual Test Warning	OK/Warn
55	LDI	WPLLD Annual Test Alarm	Normal/Alarm
60	LAI	3.0 gph Line Tests Passed in Previous 24 Hours	–
61	LAI	3.0 gph Self Tests Passed in Previous 24 Hours	–
62	LAI	3.0 gph Pump Side Tests Passed in Previous 24 Hours	–
63	LAI	3.0 gph Line Tests Passed Since Midnight	–
64	LAI	3.0 gph Self Tests Passed Since Midnight	–
65	LAI	3.0 gph Pump Side Tests Passed Since Midnight	–
66	LAI	0.2 gph VLL Test Date	yymmdd
67	LAI	0.2 gph VLL Test Time	hhmm
68	LAI	0.2 gph VLL Test Result	0 = Fail 1 = Pass
69	LAI	0.1 gph VLL Test Time	yymmdd
70	LAI	0.1 gph VLL Test Date	hhmm
71	LAI	0.1 gph VLL Test Result	0 = Fail 1 = Pass
80	LAI	Last 3.0 gph Line Leak Test Date	yymmdd

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Table 3. Leak Test Values Point Map. Application 5233. (continued)

Point	Type	Description	Range/Units ^{a,b,c}
81	LAI	Last 3.0 gph Line Leak Test Time	hhmm
82	LAI	Last 3.0 gph Line Leak Test Result	0 = Fail 1 = Pass
83	LAI	3.0 gph Line Leak Tests Passed in Previous 24 Hours	–
84	LAI	3.0 gph Line Leak Tests Passed Since Midnight	–
85	LAI	Last 0.1 gph Line Leak Test Date	yymmdd
86	LAI	Last 0.1 gph Line Leak Test Time	hhmm
87	LAI	Last 0.1 gph Line Leak Test Result	0 = Fail 1 = Pass
90	LAI	Last 3.0 gph WLLD Line Leak Test Date	yymmdd
91	LAI	Last 3.0 gph WLLD Line Leak Test Time	hhmm
92	LAI	Last 3.0 gph WLLD Line Leak Test Result	0 = Fail 1 = Pass
93	LAI	3.0 gph WLLD Line Leak Tests Passed in Previous 24 Hours	–
94	LAI	3.0 gph WLLD Line Leak Tests Passed Since Midnight	–
95	LAI	Last 0.2 gph WLLD Line Leak Test Date	yymmdd
96	LAI	Last 0.2 gph WLLD Line Leak Test Time	hhmm
97	LAI	Last 0.2 WLLD Line Leak Test Result	0 = Fail 1 = Pass
98	LAI	Last 0.1 gph WLLD Line Leak Test Date	yymmdd
99	LAI	Last 0.1 gph WLLD Line Leak Test Time	hhmm
100	LAI	Last 0.1 gph WLLD Line Leak Test Result	0 = Fail 1 = Pass

^a Values noted for LDIs and LDOs are in the following format: OFF text/ON text.

^b This column indicates the value/range or engineering units or both if known.

^c The default English value is not italicized. An italicized entry indicates an SI value.

I/O Values

Table 4. I/O Values Point Map. Application 5234.

Point	Type	Description	Range/Units ^{a,b,c}
1	LAI	Address Point (Read Only)	–
2	LAI	Application Point (Read Only)	–
3	LDI	Liquid Sensor Setup Data Warning	OK/Warnng
4	LDI	Liquid Sensor Fuel Alarm	Normal/Alarm
5	LDI	Liquid Sensor Open Alarm	Normal/Alarm
6	LDI	Liquid Sensor Short Alarm	Normal/Alarm
7	LDI	Liquid Sensor Water Alarm	Normal/Alarm
8	LDI	Liquid Sensor Dry Alarm	Normal/Alarm
9	LDI	Liquid Sensor High Liquid Alarm	Normal/Alarm
10	LDI	Liquid Sensor Low Liquid Alarm	Normal/Alarm
11	LDI	Liquid Sensor Liquid Alarm	Normal/Alarm
12	LDI	Vapor Sensor Setup Data Warning	OK/Warnng
13	LDI	Vapor Sensor Fuel Alarm	Normal/Alarm
14	LDI	Vapor Sensor Open Alarm	Normal/Alarm
15	LDI	Vapor Sensor Short Alarm	Normal/Alarm
16	LDI	Vapor Sensor Water Alarm	Normal/Alarm
17	LDI	Vapor Sensor Dry Alarm	Normal/Alarm
18	LDI	Vapor Sensor High Liquid Alarm	Normal/Alarm
19	LDI	Vapor Sensor Low Liquid Alarm	Normal/Alarm
20	LDI	Vapor Sensor Liquid Alarm	Normal/Alarm
21	LDI	Groundwater Sensor Setup Data Warning	OK/Warnng
22	LDI	Groundwater Sensor Fuel Alarm	Normal/Alarm
23	LDI	Groundwater Sensor Open Alarm	Normal/Alarm
24	LDI	Groundwater Sensor Short Alarm	Normal/Alarm
25	LDI	Groundwater Sensor Water Alarm	Normal/Alarm
26	LDI	Groundwater Sensor Dry Alarm	Normal/Alarm
27	LDI	Groundwater Sensor High Liquid Alarm	Normal/Alarm
28	LDI	Groundwater Sensor Low Liquid Alarm	Normal/Alarm
29	LDI	Groundwater Sensor Liquid Alarm	Normal/Alarm
30	LDI	Type A Sensor Setup Data Warning	OK/Warnng
31	LDI	Type A Sensor Fuel Alarm	Normal/Alarm
32	LDI	Type A Sensor Open Alarm	Normal/Alarm

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Table 4. I/O Values Point Map. Application 5234. (continued)

Point	Type	Description	Range/Units^{a,b,c}
33	LDI	Type A Sensor Short Alarm	Normal/Alarm
34	LDI	Type A Sensor Water Alarm	Normal/Alarm
35	LDI	Type A Sensor Dry Alarm	Normal/Alarm
36	LDI	Type A Sensor High Liquid Alarm	Normal/Alarm
37	LDI	Type A Sensor Low Liquid Alarm	Normal/Alarm
38	LDI	Type A Sensor Liquid Alarm	Normal/Alarm
39	LDI	Type B Sensor Setup Data Warning	OK/Warnng
40	LDI	Type B Sensor Fuel Alarm	Normal/Alarm
41	LDI	Type B Sensor Open Alarm	Normal/Alarm
42	LDI	Type B Sensor Short Alarm	Normal/Alarm
43	LDI	Type B Sensor Water Alarm	Normal/Alarm
44	LDI	Type B Sensor Dry Alarm	Normal/Alarm
45	LDI	Type B Sensor High Liquid Alarm	Normal/Alarm
46	LDI	Type B Sensor Low Liquid Alarm	Normal/Alarm
47	LDI	Type B Sensor Liquid Alarm	Normal/Alarm
48	LDI	Universal Sensor Setup Data Warning	OK/Warnng
49	LDI	Universal Sensor Fuel Alarm	Normal/Alarm
50	LDI	Universal Sensor Open Alarm	Normal/Alarm
51	LDI	Universal Sensor Short Alarm	Normal/Alarm
52	LDI	Universal Sensor Water Alarm	Normal/Alarm
53	LDI	Universal Sensor Dry Alarm	Normal/Alarm
54	LDI	Universal Sensor High Liquid Alarm	Normal/Alarm
55	LDI	Universal Sensor Low Liquid Alarm	Normal/Alarm
56	LDI	Universal Sensor Liquid Alarm	Normal/Alarm
57	LDI	Input Setup Warning	OK/Fault
58	LDI	Input Status	Off/On
59	LDI	Mechanical Dispenser DIM Disabled Alarm	OK/Warnng
60	LDI	Mechanical Dispenser DIM Communication Failure	OK/Fault
61	LDI	Electronic Dispenser DIM Disabled Alarm	OK/Warnng
62	LDI	Electronic Dispenser DIM Communication Failure	OK/Fault
70	LDI	Input Status	Off/On
71	LDI	Relay Status	Off/On
72	LDI	Liquid Sensor All Normal	Off/On
73	LDI	Liquid Sensor Setup Data Warning	OK/Warnng
74	LDI	Liquid Sensor Fuel Alarm	Normal/Alarm

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Table 4. I/O Values Point Map. Application 5234. (continued)

Point	Type	Description	Range/Units^{a,b,c}
75	LDI	Liquid Sensor Open Alarm	Normal/Alarm
76	LDI	Liquid Sensor Short Alarm	Normal/Alarm
77	LDI	Liquid Sensor Water Alarm	Normal/Alarm
78	LDI	Liquid Sensor Dry Alarm	Normal/Alarm
79	LDI	Liquid Sensor High Liquid Alarm	Normal/Alarm
80	LDI	Liquid Sensor Low Liquid Alarm	Normal/Alarm
81	LDI	Liquid Sensor Liquid Alarm	Normal/Alarm
<p>^a Values noted for LDIs are in the following format: OFF text/ON text.</p> <p>^b This column indicates the value/range or engineering units or both if known.</p> <p>^c The default English value is not italicized. An italicized entry indicates an SI value.</p>			

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