

Systems Integration

Siemens Combustion Control Modbus Solution: RWF40

Table 1. RWF40 Compact Universal Controller Point Map, Application 4644.

Point	Type	Description	Range/Units ^{a b c}
1	LAO	Address	–
2	LAI	Application	–
3	LDI	Communication Error	Off/On
4	LAO	IP Address 1	–
5	LAO	IP Address 2	–
6	LAO	IP Address 3	–
7	LAO	IP Address 4	–
8	LAO	IP Port	–
9	LAO	Base Offset	–
10	LAO	Send Initial Value	–
11	LAI	Actual Value E1	°F °C
12	LAI	Actual Value E2	°F °C
13	LAI	Actual Value E3	°F °C
15	LAO	Current Setpoint	°F °C
16	LAO	First Setpoint	°F °C
17	LAO	Second Setpoint	°F °C
19	LAO	Limit Value Limit Comparator	°F °C
20	LAO	Proportional Band	°F °C
21	LAO	Derivative Action Time	–
23	LAO	Integral Action Time	–
24	LAO	Deadband	°F °C

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Table 1. RWF40 Compact Universal Controller Point Map, Application 4644. (continued)

Point	Type	Description	Range/Units^{a b c}
25	LAO	Actuator Running Time	–
27	LAO	Switch On Threshold	°F °C
28	LAO	Switch Off Threshold Bottom	°F °C
29	LAO	Switch Off Threshold Top	°F °C
31	LAO	Reaction Threshold	–
32	LAO	Heating Curve Slope	–
33	LAO	Parallel Displacement Room Temperature	°F °C
34	LAO	Normalization Start Value: Input 1	°F °C
35	LAO	Normalization End Value: Input 1	°F °C
36	LAO	Normalization Start Value: Input 2	°F °C
38	LAO	Normalization End Value: Input 2	°F °C
39	LAO	Start Value Setpoint Limitation	°F °C
40	LAO	End Value Setpoint Limitation	°F °C
42	LAO	Offset Input 1	°F °C
43	LAO	Offset Input 2	°F °C
44	LAO	Offset Input 3	°F °C
46	LAO	Hysteresis of Limit Comparator	°F °C
47	LAO	Filter Time Constant Input 1	–
48	LAO	Filter Time Constant Input 3	mins
50	LAO	Bus Detection Timer	–
51	LAI	Start Value Actual Value Limit	°F °C
52	LAI	End Value Actual Value Limit	°F °C
53	LAI	Actual Value E3 (Unfiltered)	°F °C

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Table 1. RWF40 Compact Universal Controller Point Map, Application 4644. (continued)

Point	Type	Description	Range/Units ^{a b c}
54	LAO	Activation Remote Operation	0=Local 1=Remote Setpoint 2=Fully Remote
55	LDO	Controller Off in Remote Setpoint	On/Off
56	LAO	Switch On Threshold Remote	°F °C
58	LAO	Switch Off Threshold Bottom Remote	°F °C
59	LAO	Switch Off Threshold Top Remote	°F °C
60	LAO	Setpoint Remote	°F °C
62	LDO	Burner Control Remote Operation	Off/On
63	LDO	Relay K2 Remote Operation	Off/On
64	LDO	Relay K3 Remote Operation	Off/On
65	LDO	Relay K6 Remote Operation	Off/On
66	LAO	Step Control Remote Operation	–
67	LAO	Position Output Remote Operation	%
68	LDI	Output 1 Off	Off/On
69	LDI	Output 3 Off	Off/On
70	LDI	Output 2 Off	Off/On
71	LDI	Output 4 Off	Off/On
76	LDI	Hysteresis Limitation (for Remote Operation)	Off/On
77	LDI	Management System Off (for Remote Operation)	Off/On
78	LDI	Self Optimization Active	Off/On
79	LDI	Second Setpoint Active	Off/On
80	LDI	Measure Value Range Crossing Input 1	Off/On
81	LDI	Measure Value Range Crossing Input 2	Off/On
82	LDI	Measure Value Range Crossing Input 3	Off/On
84	LDI	Operating Mode 2 Stage Active	Off/On
85	LDI	Manual Operation Active	Off/On
86	LDI	Binary Input 1 Closed	Off/On
87	LDI	Binary Input 2 Closed	Off/On
88	LDI	Thermostat Function Active	Off/On
89	LDI	First Controller Output Active	Off/On
90	LDI	Second Controller Output Active	Off/On

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Table 1. RWF40 Compact Universal Controller Point Map, Application 4644. (continued)

Point	Type	Description	Range/Units^{a b c}
91	LDI	Limit Comparator Active	Off/On
97	LDI	Analog Output Present	Off/On
98	LDI	Interface Present	Off/On
<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>			

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