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Cross Reference List of Modbus Slave

The modbus device address can be changed in the unit display.
If 0-10V-dampers wish to be modulated via modbus, no relay box FENIX0-10V should be used and
"Relay box is not used on damper" must be set in coil address 41-56 for the damper concerned.

Modbus Device Address: 1
TCP/IP Enabled: Yes

Coils

Addr	Description
0	External alarm (0=alarm off, 1=alarm on)
1	Reset external alarm (if InputExtAlarm is hi and ExtAlarmCom is lo)
2	Request Function test (on whole system)
3	Function test dampers, section 1
4	Function test dampers, section 2
5	Function test dampers, section 3
6	Function test dampers, section 4
7	Function test damper 1
8	Function test damper 2
9	Function test damper 3
10	Function test damper 4
11	Function test damper 5
12	Function test damper 6
13	Function test damper 7
14	Function test damper 8
15	Function test damper 9
16	Function test damper 10
17	Function test damper 11
18	Function test damper 12
19	Function test damper 13
20	Function test damper 14
21	Function test damper 15
22	Function test damper 16
23	Commit checked time (only works if FuncTestDateStatus is ok, may trigger a new functiontest if FuncTestDateStatus says so)
24	Request nightmode on whole system (0=Off, 1=On)
25	Night mode damper 1
26	Night mode damper 2
27	Night mode damper 3
28	Night mode damper 4
29	Night mode damper 5
30	Night mode damper 6
31	Night mode damper 7
32	Night mode damper 8
33	Night mode damper 9
34	Night mode damper 10
35	Night mode damper 11
36	Night mode damper 12
37	Night mode damper 13
38	Night mode damper 14

39	Night mode damper 15
40	Night mode damper 16
41	Relay box is not used on damper 1
42	Relay box is not used on damper 2
43	Relay box is not used on damper 3
44	Relay box is not used on damper 4
45	Relay box is not used on damper 5
46	Relay box is not used on damper 6
47	Relay box is not used on damper 7
48	Relay box is not used on damper 8
49	Relay box is not used on damper 9
50	Relay box is not used on damper 10
51	Relay box is not used on damper 11
52	Relay box is not used on damper 12
53	Relay box is not used on damper 13
54	Relay box is not used on damper 14
55	Relay box is not used on damper 15
56	Relay box is not used on damper 16

Discrete Inputs

Addr	Description
0	Digital input, master, damper 1, open
1	Digital input, master, damper 2, open
2	Digital input, master, damper 3, open
3	Digital input, master, damper 4, open
4	Digital input, master, damper 1, closed
5	Digital input, master, damper 2, closed
6	Digital input, master, damper 3, closed
7	Digital input, master, damper 4, closed
8	Digital input, master, function test
9	Digital input, master, external alarm
10	Digital input, master, night mode
11	Digital input, slave 1, damper 1, open
12	Digital input, slave 1, damper 2, open
13	Digital input, slave 1, damper 3, open
14	Digital input, slave 1, damper 4, open
15	Digital input, slave 1, damper 1, closed
16	Digital input, slave 1, damper 2, closed
17	Digital input, slave 1, damper 3, closed
18	Digital input, slave 1, damper 4, closed
19	Digital input, slave 2, damper 1, open
20	Digital input, slave 2, damper 2, open
21	Digital input, slave 2, damper 3, open
22	Digital input, slave 2, damper 4, open
23	Digital input, slave 2, damper 1, closed
24	Digital input, slave 2, damper 2, closed
25	Digital input, slave 2, damper 3, closed
26	Digital input, slave 2, damper 4, closed
27	Digital input, slave 3, damper 1, open
28	Digital input, slave 3, damper 2, open

29	Digital input, slave 3, damper 3, open
30	Digital input, slave 3, damper 4, open
31	Digital input, slave 3, damper 1, closed
32	Digital input, slave 3, damper 2, closed
33	Digital input, slave 3, damper 3, closed
34	Digital input, slave 3, damper 4, closed
35	Digital Output, master, detector 1
36	Digital Output, master, detector 2
37	Digital Output, master, detector 3
38	Digital Output, master, detector 4
39	Digital Output, master, damper 1
40	Digital Output, master, damper 2
41	Digital Output, master, damper 3
42	Digital Output, master, damper 4
43	Digital Output, master, main alarm
44	Digital Output, master, detector service alarm
45	Digital Output, master, operation air handling unit
46	Digital Output, slave 1, detector 1
47	Digital Output, slave 1, detector 2
48	Digital Output, slave 1, detector 3
49	Digital Output, slave 1, detector 4
50	Digital Output, slave 1, damper 1
51	Digital Output, slave 1, damper 2
52	Digital Output, slave 1, damper 3
53	Digital Output, slave 1, damper 4
54	Digital Output, slave 2, detector 1
55	Digital Output, slave 2, detector 2
56	Digital Output, slave 2, detector 3
57	Digital Output, slave 2, detector 4
58	Digital Output, slave 2, damper 1
59	Digital Output, slave 2, damper 2
60	Digital Output, slave 2, damper 3
61	Digital Output, slave 2, damper 4
62	Digital Output, slave 3, detector 1
63	Digital Output, slave 3, detector 2
64	Digital Output, slave 3, detector 3
65	Digital Output, slave 3, detector 4
66	Digital Output, slave 3, damper 1
67	Digital Output, slave 3, damper 2
68	Digital Output, slave 3, damper 3
69	Digital Output, slave 3, damper 4
70	Detector loop 1, connected
71	Detector loop 2, connected
72	Detector loop 3, connected
73	Detector loop 4, connected
74	Detector loop 5, connected
75	Detector loop 6, connected
76	Detector loop 7, connected
77	Detector loop 8, connected
78	Detector loop 9, connected
79	Detector loop 10, connected
80	Detector loop 11, connected
81	Detector loop 12, connected

82	Detector loop 13, connected
83	Detector loop 14, connected
84	Detector loop 15, connected
85	Detector loop 16, connected
86	Unit in nightmode (all dampers)
87	SumAlarm (of all alarms incl service alarm)
88	Fire alarm
89	External alarm
90	Network error alarm
91	Internal error alarm
92	Detector service sum alarm
93	Damper sum alarm
94	Section 1, Fire alarm
95	Section 2, Fire alarm
96	Section 3, Fire alarm
97	Section 4, Fire alarm
98	Battery voltage low, replace battery in controller

Holding Registers

Addr	Scale	Description
0	1	System date, year (0-99)
1	1	System date, month (1-12)
2	1	System date, date (1-31)
3	1	System time, hour (0-23)
4	1	System time, minute (0-59)
5	1	System time, second (0-59)
6	1	Damper manual control (0=Close, 1=Open, 2=Auto)
7	1	Damper manual control (0=Close, 1=Open, 2=Auto)
8	1	Damper manual control (0=Close, 1=Open, 2=Auto)
9	1	Damper manual control (0=Close, 1=Open, 2=Auto)
10	1	Damper manual control (0=Close, 1=Open, 2=Auto)
11	1	Damper manual control (0=Close, 1=Open, 2=Auto)
12	1	Damper manual control (0=Close, 1=Open, 2=Auto)
13	1	Damper manual control (0=Close, 1=Open, 2=Auto)
14	1	Damper manual control (0=Close, 1=Open, 2=Auto)
15	1	Damper manual control (0=Close, 1=Open, 2=Auto)
16	1	Damper manual control (0=Close, 1=Open, 2=Auto)
17	1	Damper manual control (0=Close, 1=Open, 2=Auto)
18	1	Damper manual control (0=Close, 1=Open, 2=Auto)
19	1	Damper manual control (0=Close, 1=Open, 2=Auto)
20	1	Damper manual control (0=Close, 1=Open, 2=Auto)
21	1	Damper manual control (0=Close, 1=Open, 2=Auto)
22	1	Damper manual control, section 1 (0=Close, 1=Open, 2=Auto, 3=Off sync, single damper in section is changed)
23	1	Damper manual control, section 2 (0=Close, 1=Open, 2=Auto, 3=Off sync, single damper in section is changed)
24	1	Damper manual control, section 3 (0=Close, 1=Open, 2=Auto, 3=Off sync, single damper in section is changed)
25	1	Damper manual control, section 4 (0=Close, 1=Open, 2=Auto, 3=Off sync, single damper in section is changed)
26	1	Night mode section 1 (0=Off, 1=On, 2=Off sync, single damper in section is changed)

27	1	Night mode section 2 (0=Off, 1=On, 2=Off sync, single damper in section is changed)
28	1	Night mode section 3 (0=Off, 1=On, 2=Off sync, single damper in section is changed)
29	1	Night mode section 4 (0=Off, 1=On, 2=Off sync, single damper in section is changed)
30	10	Modulating damper 1 output, in percent. (RelayBoxNotUsed1 must be 1 to use)
31	10	Modulating damper 2 output, in percent. (RelayBoxNotUsed2 must be 1 to use)
32	10	Modulating damper 3 output, in percent. (RelayBoxNotUsed3 must be 1 to use)
33	10	Modulating damper 4 output, in percent. (RelayBoxNotUsed4 must be 1 to use)
34	10	Modulating damper 5 output, in percent. (RelayBoxNotUsed5 must be 1 to use)
35	10	Modulating damper 6 output, in percent. (RelayBoxNotUsed6 must be 1 to use)
36	10	Modulating damper 7 output, in percent. (RelayBoxNotUsed7 must be 1 to use)
37	10	Modulating damper 8 output, in percent. (RelayBoxNotUsed8 must be 1 to use)
38	10	Modulating damper 9 output, in percent. (RelayBoxNotUsed9 must be 1 to use)
39	10	Modulating damper 10 output, in percent. (RelayBoxNotUsed10 must be 1 to use)
40	10	Modulating damper 11 output, in percent. (RelayBoxNotUsed11 must be 1 to use)
41	10	Modulating damper 12 output, in percent. (RelayBoxNotUsed12 must be 1 to use)
42	10	Modulating damper 13 output, in percent. (RelayBoxNotUsed13 must be 1 to use)
43	10	Modulating damper 14 output, in percent. (RelayBoxNotUsed14 must be 1 to use)
44	10	Modulating damper 15 output, in percent. (RelayBoxNotUsed15 must be 1 to use)
45	10	Modulating damper 16 output, in percent. (RelayBoxNotUsed16 must be 1 to use)
46	1	Interval between function test (0=24h,1=48h,2=Once a week,3=Once every two weeks,4=Once a month (30days),5=Once every six months)
47	1	Request Date and time when next function test will run, month (Check status in FuncTestDateStatus, commit time with FuncTestReqTimeCommit)
48	1	Request Date and time when next function test will run, day
49	1	Request Date and time when next function test will run, hour
50	1	Request Date and time when next function test will run, minute
51	1	Damper max runtime open (seconds, one setting for all dampers)
52	1	Damper max runtime close (seconds, one setting for all dampers)
53	1	Network icon off delay (seconds it take for the icon to turn off after last successful communication via modbus or BACnet)

Input Registers

Addr	Scale	Description
0	1	Analogue output, master, damper 1 (in percent)
1	1	Analogue output, master, damper 2 (in percent)
2	1	Analogue output, master, damper 3 (in percent)
3	1	Analogue output, master, damper 4 (in percent)
4	1	Analogue output, slave 1, damper 1 (in percent)
5	1	Analogue output, slave 1, damper 2 (in percent)
6	1	Analogue output, slave 1, damper 3 (in percent)
7	1	Analogue output, slave 1, damper 4 (in percent)
8	1	Analogue output, slave 2, damper 1 (in percent)
9	1	Analogue output, slave 2, damper 2 (in percent)
10	1	Analogue output, slave 2, damper 3 (in percent)
11	1	Analogue output, slave 2, damper 4 (in percent)
12	1	Analogue output, slave 3, damper 1 (in percent)
13	1	Analogue output, slave 3, damper 2 (in percent)
14	1	Analogue output, slave 3, damper 3 (in percent)
15	1	Analogue output, slave 3, damper 4 (in percent)
16	1	Slave 1 status (0=Not connected,1=Connected,2=Communication error)
17	1	Slave 2 status (0=Not connected,1=Connected,2=Communication error)

18	1	Slave 3 status (0=Not connected,1=Connected,2=Communication error)
19	1	Total number of connected slaves
20	1	Detector loop 1, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
21	1	Detector loop 2, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
22	1	Detector loop 3, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
23	1	Detector loop 4, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
24	1	Detector loop 5, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
25	1	Detector loop 6, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
26	1	Detector loop 7, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
27	1	Detector loop 8, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
28	1	Detector loop 9, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
29	1	Detector loop 10, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
30	1	Detector loop 11, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
31	1	Detector loop 12, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
32	1	Detector loop 13, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
33	1	Detector loop 14, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
34	1	Detector loop 15, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
35	1	Detector loop 16, status (0=Ok,1=Service,2=Alarm,3=Short circuit,4=Cable failure)
36	1	Total number of connected detector loops
37	1	Total number of alarmed detectors
38	1	Total number of detectors in status service
39	1	Damper 1 connected (0=No damper, 1=On/Off, 2=0-10V)
40	1	Damper 2 connected (0=No damper, 1=On/Off, 2=0-10V)
41	1	Damper 3 connected (0=No damper, 1=On/Off, 2=0-10V)
42	1	Damper 4 connected (0=No damper, 1=On/Off, 2=0-10V)
43	1	Damper 5 connected (0=No damper, 1=On/Off, 2=0-10V)
44	1	Damper 6 connected (0=No damper, 1=On/Off, 2=0-10V)
45	1	Damper 7 connected (0=No damper, 1=On/Off, 2=0-10V)
46	1	Damper 8 connected (0=No damper, 1=On/Off, 2=0-10V)
47	1	Damper 9 connected (0=No damper, 1=On/Off, 2=0-10V)
48	1	Damper 10 connected (0=No damper, 1=On/Off, 2=0-10V)
49	1	Damper 11 connected (0=No damper, 1=On/Off, 2=0-10V)
50	1	Damper 12 connected (0=No damper, 1=On/Off, 2=0-10V)
51	1	Damper 13 connected (0=No damper, 1=On/Off, 2=0-10V)
52	1	Damper 14 connected (0=No damper, 1=On/Off, 2=0-10V)
53	1	Damper 15 connected (0=No damper, 1=On/Off, 2=0-10V)
54	1	Damper 16 connected (0=No damper, 1=On/Off, 2=0-10V)
55	1	Total number of connected dampers
56	1	Damper 1 status
		0=No damper installed
		1=Open
		2=Open (modulating damper)
		3=Open (hand)
		4=Opening
		5=Opening (func. test)
		6=Opening (hand)
		7=Pre func. test opening
		8=Opening queue
		9=Opening queue (func. test)
		10=Closed (hand)
		11=Closed (alarm)
		12=Closed (night)
		13=Closed (damper error)

		14=Closed (other damper in group has fault)
		15=Closed (com error)
		16=Closing (hand)
		17=Closing (alarm)
		18=Closing (other damper in group has fault)
		19=Closing (func. test)
		20=Closing (night)
		21=Closing queue for func. test
		22=Damper connected, waiting for command
57	1	Damper 2 status (description on damper 1)
58	1	Damper 3 status (description on damper 1)
59	1	Damper 4 status (description on damper 1)
60	1	Damper 5 status (description on damper 1)
61	1	Damper 6 status (description on damper 1)
62	1	Damper 7 status (description on damper 1)
63	1	Damper 8 status (description on damper 1)
64	1	Damper 9 status (description on damper 1)
65	1	Damper 10 status (description on damper 1)
66	1	Damper 11 status (description on damper 1)
67	1	Damper 12 status (description on damper 1)
68	1	Damper 13 status (description on damper 1)
69	1	Damper 14 status (description on damper 1)
70	1	Damper 15 status (description on damper 1)
71	1	Damper 16 status (description on damper 1)
72	1	Damper 1 error reason
		0=No error
		1=No open indication
		2=No close indication
		3=No open & close indication
		4=Both open & close indication
		5=No damper connected
		6=Overcurrent
73	1	Damper 2 error reason (description on damper 1)
74	1	Damper 3 error reason (description on damper 1)
75	1	Damper 4 error reason (description on damper 1)
76	1	Damper 5 error reason (description on damper 1)
77	1	Damper 6 error reason (description on damper 1)
78	1	Damper 7 error reason (description on damper 1)
79	1	Damper 8 error reason (description on damper 1)
80	1	Damper 9 error reason (description on damper 1)
81	1	Damper 10 error reason (description on damper 1)
82	1	Damper 11 error reason (description on damper 1)
83	1	Damper 12 error reason (description on damper 1)
84	1	Damper 13 error reason (description on damper 1)
85	1	Damper 14 error reason (description on damper 1)
86	1	Damper 15 error reason (description on damper 1)
87	1	Damper 16 error reason (description on damper 1)
88	1	Total number of dampers have status error
89	1	Damper 1 in section, (0=no damper connected, 1=Section 1..)
90	1	Damper 2 in section, (0=no damper connected, 1=Section 1..)
91	1	Damper 3 in section, (0=no damper connected, 1=Section 1..)
92	1	Damper 4 in section, (0=no damper connected, 1=Section 1..)
93	1	Damper 5 in section, (0=no damper connected, 1=Section 1..)

94	1	Damper 6 in section, (0=no damper connected, 1=Section 1..)
95	1	Damper 7 in section, (0=no damper connected, 1=Section 1..)
96	1	Damper 8 in section, (0=no damper connected, 1=Section 1..)
97	1	Damper 9 in section, (0=no damper connected, 1=Section 1..)
98	1	Damper 10 in section, (0=no damper connected, 1=Section 1..)
99	1	Damper 11 in section, (0=no damper connected, 1=Section 1..)
100	1	Damper 12 in section, (0=no damper connected, 1=Section 1..)
101	1	Damper 13 in section, (0=no damper connected, 1=Section 1..)
102	1	Damper 14 in section, (0=no damper connected, 1=Section 1..)
103	1	Damper 15 in section, (0=no damper connected, 1=Section 1..)
104	1	Damper 16 in section, (0=no damper connected, 1=Section 1..)
105	1	Detector 1 closing damper section, bitmap:
		Bit 0=Section 1
		Bit 1=Section 2
		Bit 2=Section 3
		Bit 3=Section 4
		Bit 4-15, Spare
106	1	Detector 2 closing damper section, bitmap (description on detector 1)
107	1	Detector 3 closing damper section, bitmap (description on detector 1)
108	1	Detector 4 closing damper section, bitmap (description on detector 1)
109	1	Detector 5 closing damper section, bitmap (description on detector 1)
110	1	Detector 6 closing damper section, bitmap (description on detector 1)
111	1	Detector 7 closing damper section, bitmap (description on detector 1)
112	1	Detector 8 closing damper section, bitmap (description on detector 1)
113	1	Detector 9 closing damper section, bitmap (description on detector 1)
114	1	Detector 10 closing damper section, bitmap (description on detector 1)
115	1	Detector 11 closing damper section, bitmap (description on detector 1)
116	1	Detector 12 closing damper section, bitmap (description on detector 1)
117	1	Detector 13 closing damper section, bitmap (description on detector 1)
118	1	Detector 14 closing damper section, bitmap (description on detector 1)
119	1	Detector 15 closing damper section, bitmap (description on detector 1)
120	1	Detector 16 closing damper section, bitmap (description on detector 1)
121	1	Date when last function test was started, Year (2dig)
122	1	Date when last function test was started, month
123	1	Date when last function test was started, date
124	1	Time when last function test was started, hour
125	1	Time when last function test was started, minute
126	100	Time left to next function test, in days
127	1	Time left to next function test, in minutes
129	1	Date when next function test will be started, year (2dig)
130	1	Date when next function test will be started, month
131	1	Date when next function test will be started, date
132	1	Time when next function test will be started, hour
133	1	Time when next function test will be started, minute
134	1	Function test date time, new date input status (0=Ok,1=bad,2=new test needed,3=Internal,4=new test started,5=Internal, 6=Idle,7=Bad date new interval,8=Date unfilled new interval,9=Date ok new interval)
135	1	Total number of dampers that have been function tested (zeroed on func test and then increase when dampers are tested)
136	1	Network alarm reason (for future use)
137	1	Internal alarm reason (0=Battery error, for future use)
138	1	Display communication status (0=Offline,1=Online)

139	1	Alarms bit mapped:
		Bit 0, SumAlarm (of all alarms incl service alarm)
		Bit 1, Fire alarm (Detector sum alarm and ExternalAlarm)
		Bit 2, External alarm
		Bit 3, Network error alarm
		Bit 4, Internal error alarm
		Bit 5, Service alarm
		Bit 6-10, Spare
		Bit 11, Damper sum alarm
		Bit 12, Section 1, Fire alarm
		Bit 13, Section 2, Fire alarm
		Bit 14, Section 3, Fire alarm
		Bit 15, Section 4, Fire alarm
140	1	Detector alarms bit mapped (bit 0=Detector 1)
141	1	Damper alarms bit mapped (bit 0=Damper 1)