



2020-09-07

## 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
7	Function test damper 1
8	Function test damper 2
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
41	Relay box is not used on damper 1
42	Relay box is not used on damper 2

### Discrete Inputs

Addr	Description
0	Digital input, master, damper 1, open
1	Digital input, master, damper 2, open
4	Digital input, master, damper 1, closed
5	Digital input, master, damper 2, closed
8	Digital input, master, function test
9	Digital input, master, external alarm
10	Digital input, master, night mode
35	Digital Output, master, detector 1
36	Digital Output, master, detector 2
39	Digital Output, master, damper 1
40	Digital Output, master, damper 2
43	Digital Output, master, main alarm
44	Digital Output, master, detector service alarm
45	Digital Output, master, operation air handling unit
70	Detector loop 1, connected
71	Detector loop 2, 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
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)
22	1	Damper manual control, section 1 (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)
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)
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)
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)
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)
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)
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)
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..)
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)
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)