

VARIABLE LIST



MAXIAIR MXP-RR & RS

1500 - 15000 m³/h

HEAT RECOVERY UNIT

RR : With enthalpic thermal wheel

RS : With plate heat exchanger

MAXIAIR MXP-RR&RS-
VARIABLE LIST-1905-E



8.16 Supervision (MODBUS RTU protocol)

With the SCMB board accessory, the unit can become a slave modbus. The configuration parameters of communication port are available in G.Service list and e.BMS configuration sub list.

Default values are: slave address 1, speed 9600 bps, stop bit 2, data bit 8 (fixed).

The list and meaning of parameters, for 1.4.008 software version, can be found in the below table.

In case of different software version, some differences can occur in some parameters.

ANALOG VARIABLES					
Address	Name	UM	Default	Access	Description
1	External Probe temperature	°C		R	Temperature measured by external air probe
2	Room Probe temperature	°C		R	Temperature measured by room probe
3	Supply Probe temperature	°C		R	Temperature measured by supply air probe
4	Exhaust Probe temperature	°C		R	Temperature measured by exhaust air probe
5	CO ₂ or RH Probe value	ppm		R	CO ₂ or RH probe value
6	Set Point	°C	20	R/W	Temperature set point
7	A0 value	°C	2	R/W	A0 value
8	A1 value	°C	1	R/W	A1 value
9	Min value set point	°C	15	R/W	Min value set point
10	Max value set point	°C	35	R/W	Max value set point
11	Min supply air temperature	°C	15	R/W	When min supply air function is activated
12	Differential min supply air temperature	°C	3	R/W	When min supply air function is activated
13	Analog Output 1 value	%		R	Actual value of AO1
14	Analog Output 2 value	%		R	Actual value of AO2
15	Analog Output 3 value	%		R	Actual value of AO3
16	Analog Output 4 value	%		R	Actual value of AO4
17	Set Point Antifreeze	°C	-2	R/W	Antifreeze Set Point
18	Antifreeze Histeresys	°C	3	R/W	Antifreeze Histeresys
19	Adiabatic cooler set point	°C		R/W	Adiabatic cooler set point
20	Histeresys Adiabatic cooler	°C		R/W	Histeresys Adiabatic cooler
21	-	-		-	-
22	Dead Zone - PID 1			R/W	Dead Zone - PID 1
23	Proportional Gain - PID 1			R/W	Proportional Gain - PID 1
24	Dead Zone - PID 1			R/W	Dead Zone - PID 1
25	Proportional Gain - PID 2			R/W	Proportional Gain Pid 2
26	Dead Zone - PID 3			R/W	Dead Zone - PID 3
27	Proportional Gain - PID 3			R/W	Proportional Gain Pid 3
28	Dead Zone - PID 4			R/W	Dead Zone - PID 4
29	Proportional Gain - PID 4			R/W	Proportional Gain Pid 4

INTERGER VARIABLES

Address	Name	UM	Default	Access	Description
209	Unit status			R	Unit status
210	Temperature control mode		0	R/W	0=Automatic, 1=Only heating, 2=Only cooling, 3=Only fan
211	Running mode		0	R/W	0=Heat Recovery, 1=AHU
212	Defrost mode		0	R/W	0=not active, 1=electric, 2=speed reduction, 3=Recirculation, 4=bypass
213	Supply fan speed (3-speed fan)			R/W	Man supply fan speed
214	Exhaust fan speed (3-speed fan)			R/W	Man exhaust fan speed
215	Min Supply speed		10	R/W	Min supply fan speed value (analog fan)
216	Max supply speed		90	R/W	Max supply fan speed value (analog fan)
217	Min exhaust speed		10	R/W	Min exhaust fan speed value (analog fan)
218	Max exhaust speed		90	R/W	Max exhaust fan speed value (analog fan)
219	Analog supply fan speed (EC)		50	R/W	supply fan speed (analog fan)
220	Analog exhaust fan speed (EC)		50	R/W	exhaust fan speed (analog fan)
221	CO ₂ or RH Set point		700	R/W	Set point CO ₂ (analog fan)
222	Defrost speed reduction		30	R/W	Speed reduction when defrost mode is speed reduction
223	Defrost set point		4	R/W	Defrost set point action
224	Defrost Histeresys			R/W	Defrost Histeresys
225	Analog input drive fan value			R	Analog input value for fan speed
226	Low CO ₂ or RH threshold			R/W	Low CO ₂ threshold for three speed fan or madulating dampers
227	High CO ₂ or RH threshold			R/W	High CO ₂ threshold for three speed fan or modulating dampers
228	Delay fan activation		0	R/W	Delay fan start (for damper opening) in second
229	Post treatment 1 running mode		0	R/W	0 = Auto, 1= Man Off, 2= Man On
230	Post treatment 2 running mode		0	R/W	0 = Auto, 1= Man Off, 2= Man On
231	Integral time - PID 1			R/W	Integral time - PID 1
232	Integral time - PID 2			R/W	Integral time - PID 2
233	Integral time - PID 3			R/W	Integral time - PID 3
234	Integral time - PID 4			R/W	Integral time - PID 4
235	Modulating I/O Damper Action		0	R/W	0=fixed position, 1=CO ₂ PID, 2= CO ₂ treshold
236	Fixed open I/O Damper	%	70	R/W	fixed open of I/O damper if action is 0
237	Fixed open Recirculating Damper	%	30	R/W	fixed open of Irec. damper if action is 0
238	Min Open I/O Dampers	%	30	R/W	min open I/O Dampers if action is 2
239	Med Open I/O Dampers	%	60	R/W	med open I/O Dampers if action is 2
240	Max Open I/O Dampers	%	100	R/W	max open I/O Dampers if action is 2

DIGITAL VARIABLES

Address	Name	UM	Default	Access	Description
1	DO1 status			R	Actual value of digital output 1
2	DO2 status			R	Actual value of digital output 2
3	DO3 status			R	Actual value of digital output 3
4	DO4 status			R	Actual value of digital output 4
5	DO5 status			R	Actual value of digital output 5
6	DO6 status			R	Actual value of digital output 6
7	Unit status			R	0= off, 1=on
8	Alarm			R	Alarm summary
9	Supervisor on/off			R/W	Unit on from supervisor
10	Remote On/Off			R	Status of Remote on/off digital input
12	Filter Pressure switch			R	Status of filter pressure switch digital input
13	Door sensor			R	Status of doors sensor digital input
14	Thermal protection			R	Status of thermal protection digital input
15	Alarm input			R	Status of Alarm digital input
16	Reserved			R	
17	Reserved			R	
18	Reserved			R	
19	Reserved			R	
20	Probe alarm AI1			R	Probe broken or disconnected AI1
21	Probe alarm AI2			R	Probe broken or disconnected AI2
22	Probe alarm AI3			R	Probe broken or disconnected AI3
23	Probe alarm AI4			R	Probe broken or disconnected AI4
24	Probe alarm AI5			R	Probe broken or disconnected AI5
25	Probe alarm AI6			R	Probe broken or disconnected AI6
26	Probe alarm AI7			R	Probe broken or disconnected AI7
27	Defrost Alarm			R	Defrost Alarm
28	Reserved			R	
29	Antifreeze activation			R/W	Activated antifreeze action when post treatment is water coil
30	Antifreeze probe is supply probe			R/W	False= probe on B7, True= Inlet Probe
31	Fan action during antifreeze			R/W	False= fan off, True=Fan On
40	DO7 Status			R	Actual value of digital output 7
41	DO8 Status			R	Actual value of digital output 8
42	DO9 Status			R	Actual value of digital output 9
43	DO10 Status			R	Actual value of digital output 10
44	DO11 Status			R	Actual value of digital output 11
45	DO12 Status			R	Actual value of digital output 12
46	DI1 Status			R	Actual Value of digital input 1
47	DI2 Status			R	Actual Value of digital input 2
48	DI3 Status			R	Actual Value of digital input 3
49	DI4 Status			R	Actual Value of digital input 4
50	DI5 Status			R	Actual Value of digital input 5
51	DI6 Status			R	Actual Value of digital input 6
52	DI7 Status			R	Actual Value of digital input 7
53	DI8 Status			R	Actual Value of digital input 8
54	DI9 Status			R	Actual Value of digital input 9
55	DI10 Status			R	Actual Value of digital input 10
56	Probe alarm AI7			R	Probe broken or disconnected AI7
57	Probe alarm AI8			R	Probe broken or disconnected AI8
58	Probe alarm AI9			R	Probe broken or disconnected AI9
59	Probe alarm AI10			R	Probe broken or disconnected AI10
60	Probe alarm AI11			R	Probe broken or disconnected AI11

lennoxemea.com

Due to LENNOX EMEA ongoing commitment to quality, the specifications, ratings and dimensions are subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

**MAXIAIR MXP-RR&RS-
VARIABLE LIST-1905-E**



www.lennoxemea.com

LENNOX