

1. Communication port is RS485, standard MODBUS-RTU communication protocol, control board is slave (address: 1)
2. Data format: 1ST+8DATA+1SP Baud rate: 9600.
3. The maximum consecutive read quantity of 0x and 1x is 48. The first temporary storage address being read must be 0 or 48. Otherwise the slave computer will return an error response.
4. The maximum consecutive read quantity of 3x and 4x is 8.

Readable and writable (0x), read: 01 / write: 05

Temporary storage address	Temporary storage content	Range	Unit	Step length	Default	Illustration
0	Power	0 ~ FF			0	0: Switch off FF: Switch on
1 ~ 47	reserve					

read only (1x), Read : 02 / Write : --

Temporary storage address	Temporary storage content	Range	Unit	Step length	Default	Illustration
0	Switch on/off	0 ~ 1				0: stop; 1: run (read only)
1	Defrosting	0 ~ 1				0: stop; 1: run (read only)
2 ~ 47	reserve					
48	E0	0 ~ 1				0: no; 1: yes (read only)
49	E1	0 ~ 1				0: no; 1: yes (read only)
50	E2	0 ~ 1				0: no; 1: yes (read only)
51	E3	0 ~ 1				0: no; 1: yes (read only)
52	E4	0 ~ 1				0: no; 1: yes (read only)
53	E5	0 ~ 1				0: no; 1: yes (read only)
54	E6	0 ~ 1				0: no; 1: yes (read only)
55	E7	0 ~ 1				0: no; 1: yes (read only)
56	E8	0 ~ 1				0: no; 1: yes (read only)
57	reserve					
58	EA	0 ~ 1				0: no; 1: yes (read only)
59	EB	0 ~ 1				0: no; 1: yes (read only)
60	reserve	0 ~ 1				0: no; 1: yes (read only)
61	ED	0 ~ 1				0: no; 1: yes (read only)
62 ~ 63	reserve					
64	P0	0 ~ 1				0 : no ; 1 : yes (read only)
65	P1	0 ~ 1				0 : no ; 1 : yes (read only)
66	P2	0 ~ 1				0 : no ; 1 : yes (read only)

67	P3	0 ~ 1				0 : no ; 1 : yes (read only)
68	P4	0 ~ 1				0 : no ; 1 : yes (read only)
69	P5	0 ~ 1				0 : no ; 1 : yes (read only)
70	P6	0 ~ 1				0 : no ; 1 : yes (read only)
71	P7	0 ~ 1				0 : no ; 1 : yes (read only)
72	P8	0 ~ 1				0 : no ; 1 : yes (read only)
73	P9	0 ~ 1				0 : no ; 1 : yes (read only)
74	PA	0 ~ 1				0 : no ; 1 : yes (read only)
75 ~ 80	reserve					
81	F1	0 ~ 1				0 : no ; 1 : yes (read only)
82	F2	0 ~ 1				0 : no ; 1 : yes (read only)
83	F3	0 ~ 1				0 : no ; 1 : yes (read only)
84	F4	0 ~ 1				0 : no ; 1 : yes (read only)
85	F5	0 ~ 1				0 : no ; 1 : yes (read only)
86	F6	0 ~ 1				0 : no ; 1 : yes (read only)
87	F7	0 ~ 1				0 : no ; 1 : yes (read only)
88	F8	0 ~ 1				0 : no ; 1 : yes (read only)
89	F9	0 ~ 1				0 : no ; 1 : yes (read only)
90	FA	0 ~ 1				0 : no ; 1 : yes (read only)
91	Fb	0 ~ 1				0 : no ; 1 : yes (read only)
92 ~ 95	reserve					

Readable and writable (4x), Read: 03 / Write: 06

Temporary storage address	Temporary storage content	Range	Unit	Step length	Default	Illustration
0	mode selectioin 1	0~2		1	1	0: Auto, 1: Heating, 2: Cooling
1	mode selectioin 2	0~2		1	1	0: Silence, 1: Perfect, 2: Turbo
2	Temp setting under Auto mode	84~140		2	112	Please refer to attached table for conversion formula
3	Temp setting under Heating mode	96~140		2	112	Please refer to attached table for conversion formula
4	Temp setting under Cooling mode	84~120		2	112	Please refer to attached table for conversion formula
5	reserve					

Read Only (3x), Read: 04 / Write: --

Temporary storage address	Temporary storage content	Range	Unit	Step length	Default	Illustration
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0	Percentage of speed		%			
1	reserve					
2	reserve					
3	Water inlet temperature (AIN1)					Please refer to attached table for conversion formula
4	Water outlet temperature (AIN2)					Please refer to attached table for conversion formula
5	reserve					
6	reserve					
7	reserve					
8	reserve					
9	reserve					
10	reserve					
11	reserve					
12	reserve					
13	reserve					
14	reserve					
15 ~ 28	reserve					

Attached table	
Temperature type 1 (°C)	Temp = (Communication value - 60) / 2
	Communication value = Temp * 2 + 60
	Example: Target water temp is 30°C, (30°C * 2 + 60 = 120), send 120 to heat pump
Temperature type 2 (°F)	Temp = Communication value / 2
	Communication value = Temp * 2
	Target water temp is 60°F, (60°F * 2 = 120), send 120 to heat pump