



Communication Protocol: MODBUS RTU

BaudRate: 19.600 (Auto Baud Rate)

Data Bits: 8

Stop Bits: 1

Parity: Even, Odd and none.

Address MODBUS	Reading Range	Bits Index	State	Point Name	Writing Reading	Scale
1	-50.0 – 250.0	-	-	Sensor 1 alarm temperature;	W / R	-1000:10
2	-50.0 – 250.0	-	-	Sensor 2 alarm temperature;	W / R	-1000:10
3	-50.0 – 250.0	-	-	Sensor 3 alarm temperature;	W / R	-1000:10
4	-50.0 – 250.0	-	-	Sensor 1 shutdown temperature	W / R	-1000:10
5	-50.0 – 250.0	-	-	Sensor 2 shutdown temperature	W / R	-1000:10
6	-50.0 – 250.0	-	-	Sensor 3 shutdown temperature	W / R	-1000:10
7	-50.0 – 250.0	-	-	Sensor 1 fan trigger temperature	W / R	-1000:10
8	-50.0 – 250.0	-	-	Sensor 2 fan trigger temperature	W / R	-1000:10
9	-50.0 – 250.0	-	-	Sensor 3 fan trigger temperature	W / R	-1000:10
10	0-100	-	-	Alarm shutdown hysteresis	W / R	-
11	0-300	-	-	Ventilation shutdown hysteresis	W / R	-
12	0-20	-	-	Delay time for shutdown (minutes)	W / R	1:10

MONITEMP SERIAL COMMUNICATION

Address MODBUS	Reading Range	Bits Index	State	Point Name	Writing Reading	Scale
13	-	-		Register - Analog Output Range:	-	
		0 to 4	0	When 0 defines Analog Output from 0 to 1mA;	W / R	1:1
			1	When 0 defines Analog Output from 0 to 5mA;	W / R	1:1
			2	When 0 defines Analog Output from 0 to 10mA;	W / R	1:1
			3	When 0 defines Analog Output from 0 to 20mA;	W / R	1:1
		4	When 0 defines Analog Output from 4 to 20mA;	W / R	1:1	
14	-	-		Register - Analog Output Mirroring:	-	
		-	0	When 0, defines analog output disabled;	W / R	1:1
		-	1	When 1, sets analog output fixed at sensor 1 temperature;	W / R	1:1
		-	2	When 2, sets analog output fixed at sensor 2 temperature;	W / R	1:1
		-	3	When 3, sets analog output fixed at sensor 3 temperature;	W / R	1:1
		-	4	When 4, sets fixed analog output at the highest temperature;	W / R	1:1
15	-50.0 – 250.0	-		Minimum temperature for Analog output	W / R	-1000:10
16	-50.0 – 250.0	-		Maximum temperature for Analog output	W / R	-1000:10
17	0 to 2	-		Registers - Commands	-	
		0	0	Forced cooling as AUT (automatic);	W / R	-
			1	Forced cooling as ON (manual);	W / R	-
		1	1	Resets recorded maximum temperature values;	W / R	-
		2	1	Restarts the equipment;	W / R	-

MONITEMP SERIAL COMMUNICATION

MODBUS	Reading Range	Bits Index	State	Point Name	Write/Read	Scale
18	-	-		Register – DSPT display presentation mode	-	
		-	0	When 0 sets Display in SCAN Mode;	W / R	1:1
		-	1	When 1 sets Fixed Display Sensor 1;	W / R	1:1
		-	2	When 2 sets Fixed Display Sensor 2;	W / R	1:1
		-	3	When 3 sets Fixed Display Sensor 3;	W / R	1:1
		-	4	When 4 sets Fixed Display at Highest temperature;	W / R	1:1
19	0 to 2	-		Register – Sensors Status		
		0	0	Sensor 1 Disabled;	W / R	-
			1	Sensor 1 Enabled;	W / R	-
		1	0	Sensor 2 Disabled;	W / R	-
			1	Sensor 2 Enabled;	W / R	-
		2	0	Sensor 3 Disabled;	W / R	-
1	Sensor 3 Enabled;		W / R	-		
20	-	-		Register – Ventilation Exercises – ON/OFF	-	
		-	0	Ventilation Exercise Off;	W / R	-
		-	1	Ventilation Exercise On;	W / R	-
21	0 to 1	-		Register – Parity Communication	-	
		-	0	No Parity;	W / R	-
		-	1	Even Parity;	W / R	-
		-	2	Odd Parity;	W / R	-
22	-	-		Register – Communication Protocol Selection	-	
		-	0	MODBUS RTU;	W / R	-
		-	1	DNP3 LEVEL 1;	W / R	-

Address MODBUS	Reading Range	Bits Index	State	Point Name	Writing Reading	Scale
23	1 - 254	-		Serial network address	R	-
24	-50.0 – 250.0	-		Sensor 1 alarm temperature;	R	-1000:10
25	-50.0 – 250.0	-		Sensor 2 alarm temperature;	R	-1000:10
26	-50.0 – 250.0	-		Sensor 3 alarm temperature;	R	-1000:10
29	-50.0 – 250.0	-		Maximum temperature reached by sensor 1;	R	-1000:10
30	-50.0 – 250.0	-		Maximum temperature reached by sensor 2;	R	-1000:10
31	-50.0 – 250.0	-		Maximum temperature reached by sensor 3;	R	-1000:10
32	0 to 3	-		Register – Alarmas Situation	-	
		0	1	Sensor 1 alarm;	R	-
		1	1	Sensor 2 alarm;	R	-
		2	1	Sensor 3 alarm;	R	-
		3	1	Alarm Relay Activated;	R	-
33	0 to 3	-		Register – Counting status for shutdown		
		0	1	Sensor Shutdown Count 1;	R	-
		1	1	Sensor 2 Shutdown Count;	R	-
		2	1	Sensor Off Count 3;	R	-
34	0 to 3	-		Register – Shutdown Status.	-	
		0	1	Sensor 1 alarm;		-
		1	1	Sensor 2 alarm;	R	-
		2	1	Sensor 3 alarm;	R	-
		3	1	Turn-Off Relay Activated;	R	-

MONITEMP SERIAL COMMUNICATION

MODBUS	Reading Range	Bits Index	State	Point Name	Write/Read	Scale
35	0 to 3	-	-	Register – Ventilation Fan	-	-
		0	1	Sensor Ventilation 1;	R	-
		1	1	Sensor Ventilation 2;	R	-
		2	1	Sensor Ventilation 3;	R	-
		3	1	Ventilation Relay Activated;	R	-
37	0 to 3	-	-	Register – Sensor Conditions	-	-
		0	1	Sensor 1 Failure;	R	-
		1	1	Sensor 2 Failure;	R	-
		2	1	Sensor 3 Failure;	R	-
		3	1	Fault Relay Activated	R	-
38	0-9999	-	-	Password reminder;	R	-