Nabertherm

MORE THAN HEAT 30-3000 °C

Specification Modbus TCP Controller Series 400

Baud rate	✕
Parity	✕
Stop bit	✕
Modbus adresss	✕

Tcp Port	502
DHCP	
Hostname	
Protokoll	Modbus TCP

Data point	ParaID	SubID	Modbus adress	READ	WRITE	Min	Max	Commment
			dezimal					
Active actual value	2000	0	100	x		-	-	[° C], in tenths of a degree
Temperature Charge zone	2000	1	101	x		-	-	[° C], in tenths of a degree
Temperature cooling zone	2000	2	102	x		-	-	[° C], in tenths of a degree
Temperature zone 1	2000	3	103	x		-	-	[° C], in tenths of a degree
Temperature zone 2	2000	4	104	x		-	-	[° C], in tenths of a degree
Temperature zone 3	2000	5	105	x		-	-	[° C], in tenths of a degree
Temperature zone 4	2000	6	106	x		-	-	[° C], in tenths of a degree
Temperature Docu zone 1	2000	7	107	x		-	-	[° C], in tenths of a degree
Temperature Docu zone 2	2000	8	108	x		-	-	[° C], in tenths of a degree
Temperature Docu zone 3	2000	9	109	x		-	-	[° C], in tenths of a degree
Temperature Docu zone 4	2000	10	110	x		-	-	[° C], in tenths of a degree
Set value program	2001	0	111	x		-	-	[° C], in tenths of a degree
reserve	2001	1	112	x		-	-	[° C], in tenths of a degree
Set value charge	2001	2	113	x		-	-	[° C], in tenths of a degree
Set valu cooling thermocouple	2001	3	114	x		-	-	[° C], in tenths of a degree
Set value zone 1	2001	4	115	x		-	-	[° C], in tenths of a degree
Set value zone 2	2001	5	116	x		-	-	[° C], in tenths of a degree
Set value zone 3	2001	6	117	x		-	-	[° C], in tenths of a degree
Set value zone 4	2001	7	118	x		-	-	[° C], in tenths of a degree
Power Master	2002	0	119	x		-	-	[%], in tenths of a percent
Power cooling	2002	1	120	x		-	-	[%], in tenths of a percent
Power zone 1	2002	2	121	x		-	-	[%], in tenths of a percent
Power zone 2	2002	3	122	x		-	-	[%], in tenths of a percent
Power zone 3	2002	4	123	x		-	-	[%], in tenths of a percent
Power zone 4	2002	5	124	x		-	-	[%], in tenths of a percent
Status	411	0	125	x		-	-	0=Off,1=Wait,2=Run,3=Pause,4=End,6=Error
Program no	2003	0	126	x		-	-	-
Segment no	2004	0	127	x		-	-	-
Remaining time	415	0	128+129	x		-	-	32Bit, 125=Low Word,126=High Word
Extra relais	414	0	130	x		-	-	Bit field
Alarm 1 Status	860	0	131	x		-	-	-
Alarm 2 Status	860	1	132	x		-	-	-
Warnings	161	0	133+134	x		-	-	Bit field,32Bit, 130=Low Word,131=High Word
Actual error	170	0	135	x		-	-	-
Controller Type	257	0	136	x		-	-	0=B400,1=B410,2=C440,3=C450,4=P470,5=P480
Maximum Temperature	600	0	137	x		-	-	[°C]
Serial no	2005	0-9	138-147	x		-	-	ASCII string
Controller command	428	0	148		x	1	3	1=Start,2=Stop,3=Pause
Programm no. command	425	0	149		x	0	50	-
Segment jump command	426	0	150		x	-40	40	-

Warnings

Bit	Wert	Beschreibung
0	1	Gardient error
1	2	No control parameters
2	4	TC charge defect
3	8	TC cooling defect
4	16	TC Docu defect
5	32	Resart after power failure
6	64	Alarm 1 band alarm
7	128	Alarm 1 min
8	256	Alarm 1 max
9	512	Alarm 2 band alarm
10	1024	Alarm 2 min
11	2048	Alarm 2 max
12	4096	Alarm 1 E1
13	8192	Alarm 1 E2
14	16384	Alarm 2 E1
15	32768	Alarm 2 E2
16	65536	No USB plugged
17	131072	Import error+

Current error

Display	ID+Sub-ID
257	01-01
258	01-02
513	02-01
514	02-02
515	02-03
516	02-04
517	02-05
518	02-06
519	02-07
769	03-01
770	03-02
771	03-03
772	03-04
773	03-05
774	03-06
1025	04-01
1026	04-02
1027	04-03
1028	04-04
1029	04-05

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