MODBUS Protocol

1 Communications interface

Communicates over a RS485 port on the converter. The port on the TC module is a UART port which can not be communicated with a device directly.

2 Bits per Byte

All Used in RTU mode, the default Bits per Byte listed as followed.

START	1	2	3	4	5	6	7	8	STOP

3 Communication rate

The default is 9600BPS.

4 Data Format

All values with two bytes, the highest bit indicates sign if it's a temperature or a current.(0 for positive and 1 for negative)

Category	Conversion method	Unit
String Current	/10	A
Temperature	/10	℃

5 Address

Each module has a address which can be changed modifying the value in the address of 400010.

Category	Name	Reference	Data Address	Remarks
Firmware	Firmware Version	400001	0000H	
Data	String Current	400004	0003H	
	Temperture #1	400005	0004H	
	Temperture #2	400006	0005H	
Command	Reset	400008	0007H	Modifys the value in the register to 0xF0F0，the module will perform a
Parameters	Module Address	400010	0009H	The default address is 1.
	Baut Rate	400017	0010H	The default value is 9600BPS.