

# Thermal Mass Flowmeter Communication Protocol (MODBUS—RTU)

Command:03 (HOLDING REGISTER)

Floating point:IEEE-754, ;Endianness:3-4-1-2

Holding register:

40001—2:	Floating point,	Medium temperature(°C);	
40003—4:	Floating point,	TMF sensor voltage(V);	
40005—6:	Floating point,	Standard volcity (Nm/s);	
40007—8:	Floating point,	Standard Flow (Nm <sup>3</sup> /h);	
40009—10:	Floating point,	Total of more than one hundred	(1234);
40011—12:	Floating point,	Total of less than one hundred	(87.89);
		Total = 1234 × 100 + 87.89 = 123487.89;	
40013:	Alarm status;		
	0001—Standard flow upper alarm;		
	0002—Standard flow lower alarm;		
	0004—Temperature upper alarm;		
	0008—Temperature lower alarm;		
40014:	Total unit;		
	0000: Nm <sup>3</sup> ;		
	0001: N liter;		
40015—18:	Reserve;		
40019:	Bit		
	0(low):Clock test.	1:error;	0:ok;
	1 :Power test.	1:error;	0:ok;
	2 :EEPROM test.	1:error;	0:ok;
	3 :AD converter test.	1:error;	0:ok;
	4 :Parameter test.	1:error;	0:ok;
	5 :amplifier test.	1:error;	0:ok;
	6 :TMF sensor test.	1:error;	0:ok;
	7 :Reserve;		
	8 :Equivalent overflow.	1:error;	0:ok;
	9 :Total overflow.	1:error;	0:ok;
	10 :4-20mA output overflow.	1:error;	0:ok;
	11 :Temperature overflow.	1:error;	0:ok;
	12 : Reserve;		
	13 : Reserve;		
	14 : Reserve;		
	15 : Reserve;		
40020:	Reserve		