

# Thermal Mass Flowmeter Communication Protocol (MODBUS—RTU)

Command 03 (4B,2196) 400100

Floating point: IEEE-754, Address: 3-4-1-0

Reading register:

40001-02)	Floating point,	Actual temperature(°C);
40003-04)	Floating point,	TF sensor voltage(V);
40005-06)	Floating point,	Standard velocity (Nm/s);
40007-08)	Floating point,	Standard Flow (Nm <sup>3</sup> /h);
40009-10)	Floating point,	Total of more than one hundred (128K);
40011-12)	Floating point,	Total of less than one hundred (87.8K);
		Total = 128K * 100 + 87.8K = 12887.8K;
40013)	Alarm status:	
	0001-Standard flow upper alarm;	
	0002-Standard flow lower alarm;	
	0008-Temperature upper alarm;	
	0009-Temperature lower alarm;	
40014)	Total unit:	
	0000 - Nm <sup>3</sup> ;	
	0001 - N liter;	
40015-18)	Reserve;	
40019)	Bit	
	0(Clock) -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 - TF 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	