

Turbine flowmeter communication protocol (RTU)

RTU software ModScan32 connection:

Display Option-Floating Pt (data format - Float)

Support command 3: HOLDING REGISTER (time to keep register)

Device id: instrument internal address

Address: Instrument parameters start address, from 1-20

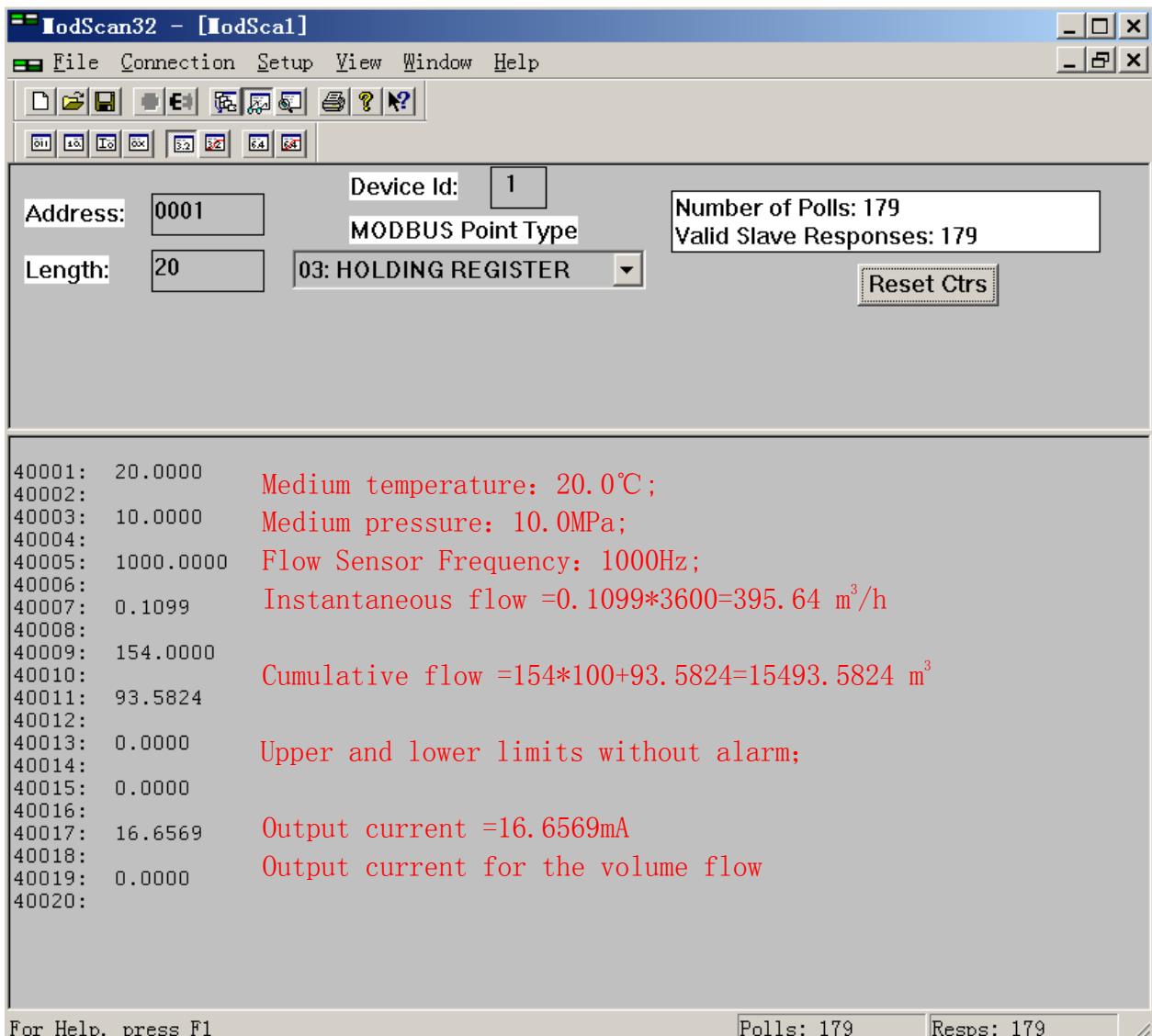
Length: Data length Length + Address <21

Parameter address:

40001—2	Medium temperature (°C)
40003—4	Medium pressure (MPa);
40005—6	Flow Sensor Frequency (Hz);
40007—8	Instantaneous flow (m ³ /s) ;
40009—10	A total of more than 100 flow (1234) ;
40011—12	Cumulative flow of 100 the following (87.89) ; Cumulative flow = 1234 × 100 + 87.89 = 123487.89
40013—14	Upper limit of alarm status 0001—Flow condition; 0004—Standard Flow; 0010—Pressure; 0040—Temperature; (Observational data in HEX format)
40015—16	Lower limit of alarm status 0001—Flow condition; 0004—Standard Flow; 0010—Pressure; 0040—Temperature; (Observational data in HEX format)
40017—18	4—20mA Current output value (mA);
40019	4—20mA Current output variables 0000—Standard the status of current output; 0001—Current output condition (Observational data in HEX format)
40020	Keep

Note: Each address is an 8-bit bytes. Police only use 27 and 31 bytes. Data communications, the

MODSCAN32 communications interface (03 orders):



Temperature: 20 °C;

Pressure: 10MPa;

Frequency: 1000Hz;

Instantaneous flow per standard conditions: 0.1099 m^3 / s ;

A total of more than 100 flow: 154 m^3

Cumulative flow of 100 the following: 93.5824 m^3

4-20mA current output: 16.6569 mA