

MODBUS RTU PROTOCOL ADDRESS TABLE
●Parameter Description

Through the modbus function code 03, using RTU mode to read the corresponding instrument parameters

Address	Action	Description
32	Read only	Bit6 mA current output fault Bit5 Offset compensation fault Bit4 Coordinate rotation fault Bit3 Critical output Bit2 Magnetic field strength increase Bit1 Magnetic field strength decrease Bit0 Magnetic chip verification error
33	Read only	Encoder verification error times
34	Read only	Relative to the azimuth value output from true north, the numerical range is from 0 to 360 degrees. Where 0 degrees means true north, 90 degrees means true east, 180 degrees means true south, and 270 means true west.

Serial communication: RS485

Communication parameter settings:

Baud rate: 9600 Data bits: 8

Stop bit: 1 Parity bit: None

Communication timeout: 50ms or more is recommended

Polling interval: 50ms or more is recommended

Station number=18, register address 40035 (azimuth angle), 0-360 degrees, 0 degrees (due north), 90 degrees (due east), 180 degrees (due south), 270 degrees (due west).

●Message description

The received command word has the following format:

Address	Active	Content	Description	Remark
01	Message headers	XX	Instrument address	Settings according to the instrument system parameter
02		03	Function code	Fixed
03	Variable	00	Register add. H	Fixed
04		01	Register add. L	
05		XX	Data length H	Set according to the needs of each instrument
06		XX	Data length L	
07	Message ending	XX	Check code	
08		XX		

When the instrument receives the correct command word, start to return the correct data, the command format is as follows:

Address	Active	Content	Description	Remark
01	Message headers	XX	Instrument address	Settings according to the instrument system parameter
02		03	Function code	Fixed
03		XX	Data length	Settings according to the needs of each instrument
04	Datas return back	H	Data 1	For the meaning of the data, see the register definition
05		L		
06		H	Data 2	
07		L		
.....			
.....	Message ending	XX	Check code	Changing according to the data
.....		XX		