

■ Menu (Supplementary)

Number	Function Description	Parameters	Default	Parameter Description	Remarks
P05	Screen Settings	0 : Closed Screen Function Turn off after 1:30 seconds 2:1 minute to close the display 3: Turn off display after 5 minutes	0	Timing screen	Press any button to light up
P15	From machine number	1 ~ 255	1	485 Communication equipment slave number	
P16	baud rate	bps 4800 bps 9600 bps 19200 38400 bps 57600 bps	9600	485 Communication rate	

■ Digital Display RS485-MODBUS Communication Notes

1. means of communication:

RS485 two-wire communication, ModBus RTU protocol;

8-bit data;

One stop bit;

No calibration;

2. address: address in hexadecimal format

Function Description	Rea din g	Wri tin g	Length	Address	Number of registers	Location Scope
Current value	√	√	32 bit	x1000 0	2	- 99999~99999
Proportional coefficient	√	√	32 bit	x1002 0	2	1~299999 (0.00001~2.99999)
Disc diameter	√	√	32 bit	x1004 0	2	mm 1~9000
Multiple compensation intervals	√	√	32 bit	x1006 0	2	mm ~90000
Direction of measurement	√	√	16 bit	x2000 0	1	0~1
Self-correction	√	×	16 bit	x2001 0	1	No
Functional selection	√	√	16 bit	x2002 0	1	0~2
Resolution	√	√	16 bit	x2003 0	1	0~2
Screen function	√	√	16 bit	x2004 0	1	0~3
From machine number	√	√	16 bit	x2005 0	1	0~255

baud rate	√	√	16 bit	x2006 0	1	4800 bps~57600 bps
Parameter backup and recovery	×	√	16 bit	x2007 0	1	0~3
Restoration of factory settings	√	√	16 bit	x2008 0	1	0~1
Multi-stage compensation model	√	√	16 bit	x200a 0	1	0~2
Error bit	√	×	16 bit	x200b 0	1	
				Bit1	0 : No	E01 data input error
				Bit6	mistakes	E06 sensor not detected
				Bit7	1 : mistakes	E07 magnetic strip not detected
				Bit9		E09 reading head is too close to the magnetic strip when self-learning
				Bit10		E10 reading head and magnetic stripe are too far away
				Bit11		E11 time-out since learning
				Bit13		Low Power Alarm Error
				Remaining balance		Reservations

Note: the above parameters and length distance related data should be consistent with the unit, resolution.

RS485 the parameters of the communication settings are not saved to the Flash by default, please set the P25 to 3 to indicate all the parameters set before saving.

3. data format

Host read register command (host to slave)		
Data sequencing	Data content	Remarks
Data0	Slave number	From machine number
Data1	x03 0	Read the command
Data2	Register address	RAH: register starting address high byte
Data3		RAL: register starting address low byte
Data4	Number of registers	Number of RNH: read registers high bytes (fixed at :0 x00)
Data5		RNL: read register number low byte (0 x01~0 x 15)
Data6	CRC Check Value	CL: CRC calibration low byte
Data7	CRC16(Data0~Data5)	High byte CH: CRC calibration
slave response < host read command >(slave to host)		
Data0	Slave number	From machine number
Data1	x03 0	Read the command
Data2	Number of bytes returned	BYTEN =RNL(read register number low bytes*2
Data3_n	Register data	High byte RVH: register value
Data4_n		RVL: register value low byte
Data5_n	CRC Check Value	CL: CRC calibration low byte
Data6_n	CRC16(Data0~Data4_n)	High byte CH: CRC calibration
Host write <16-bit register > command (host to slave)		
Data0	Slave number	From machine number
Data1	x10 0	Writing orders
Data2	Register address	RAH: register address high byte
Data3		RAL: register address low byte

Data4	Number of registers	Number of RNH: write registers high bytes (fixed at :0 x00)
Data5		Number of RNL: write registers low bytes (fixed at :0 x01)
Data6	Number of bytes	BYTEN =RNL(read register number low bytes*2 (Fixed at :0 x02)
Data7	Register value	RVH: high byte of data to write
Data8		RVL: low byte of data to write
Data9	CRC Check Value	CL: CRC calibration low byte
Data10	CRC16(Data0~Data8)	High byte CH: CRC calibration
Slave response < host write command >(from machine to host)		
Data0	Slave number	From machine number
Data1	x10 0	Writing orders
Data2	Register address	RAH: register address high byte
Data3		RAL: register address low byte
Data4	Number of registers	Number of RNH: write registers high bytes (fixed at :0 x00)
Data5		RNL: write register number low byte
Data6	CRC Check Value	CL: CRC calibration low byte
Data7	CRC16(Data0~Data5)	High byte CH: CRC calibration