

EH6400A Electronic meter operating instructions

Instrument after electrify first display product model and version number, and then display instrument function F12 34 56 and the production date, enter the running state.

F <u>12</u> <u>34</u> <u>56</u>	=F000000	status display
F <u>12</u>	=F10XXXX	2 wire 4-20mA
F <u>12</u>	=F11XXXX	3 wire 4-20mA
F <u>34</u>	=FXX01XX	pulse output
F <u>56</u>	=FXXXX01	RS485 communication
F <u>12</u> <u>34</u> <u>56</u>	=F200000	nonstandard

1、Keyboard instructions

EH6400A have three buttons **【 S 】** **【 + 】** **【 - 】**, two kind press keys method (Short press and long press (Hold not loose until the display changes)),

【 S 】 : In running state, (short press) single volume and total volume switch. (Long press) to clear a single amount.

In the setting state, (short press) moves the flashing bit (ie, the modified bit)

【 + 】: In running state, press (long press) to clear the cumulative amount

In the setting state, (short press) the flashing bit is incremented by one (ie, the bit is modified)

【 - 】: In the setting state, (short press) the flashing bit is incremented by one (ie, the bit is modified)

(long press) expression **【 confirm 】**

2、parameter setting

EH6400A Under running status, press and hold **【 - 】** to enter the password input state. After inputting the correct password, (long press) **[-]**, the meter will enter the setting state. Instrument setting status There are

four groups of operation menu "L parameter setting" "F parameter setting" "C parameter setting" "changing password"

Four groups of operations through the (long press) [-] to cycle switch.

Need to modify a parameter can be used **【S】** **【+】** **【-】** (short press) to achieve.

3、Exit the settings

EH6400A In the set state,

Press **【+】+【-】** (means press at same time,) the flow meter show SAUEd, this time (long press) **【-】** flow meter Save the parameters successfully and display SUCCESS Flashing and means return to the running state, Save failed is displayed Err Flashing and means return to the running state. (short press) **【S】** Do not save back to running state

4、parameter specification

The first set of parameters:

L00-----coefficient 0 (dominant coefficient) (Unit 0.00000L/pulse)

L01-----coefficient 1

L02-----coefficient 2

L03-----coefficient 3

L04-----coefficient 4

L05-----The first segment value (Unit 000.000m³/h)

L06-----The second segment value

L07-----The third segment value

L08-----The fourth segment value

L09-----Sectional switch (0: Not fragmented, 1: Section) Note that the coefficient 0 (the primary coefficient) is used when not segmented.

The second set of parameters:

F00-----range (The maximum flow) (单位 000.000m³/h)

F01-----minimum flow (Flow meter minimum flow)

F02-----4-20mA zero setting

F03-----4-20mA Tune full

F04-----Pulse output mode (0: Modulation pulse output, 1: Real-time pulse output)

F05----- Pulse output high level width (Unit: ms)

F06-----Modulation pulse output of the flow coefficient (Unit 0.00000L/pluse)

F07-----Debugging with the manufacturer, the user does not need to use

The third set of parameters:

C00-----Communication address of the flow meter

C01-----Communication baud rate(0: 2400, 1: 4800 , 2: 9600 Defaults, 3: 19200)

C02-----Communication mode settings

C02 The last digit =0 No parity, =1 Odd parity, =2 Even parity

C02The penultimate digit =0 flow meter with the new communication protocol, =1 With the old communication protocol (same with the DH6400E)

New protocol description::

Read the amount of single send: addr 03 0000 0002 CRC , The number of readings is fixed to three decimal places

Read the accumulated amount send:addr 03 0002 0002 CR,C Read the number of fixed three decimal places

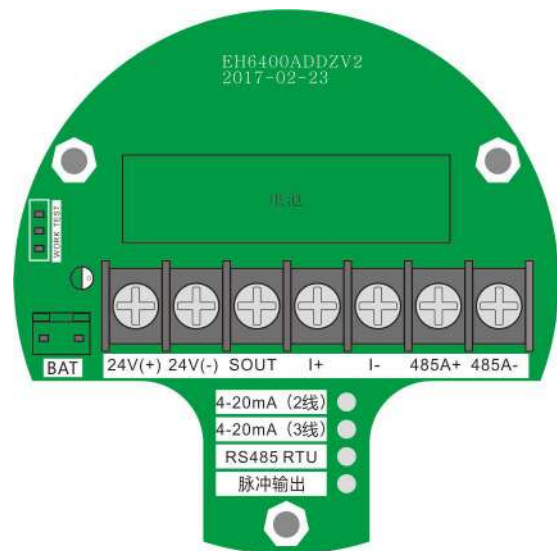
Read instantaneous volume send:addr 03 0004 0002 CRC ,Read the number of fixed three decimal places

Three quantities at the same time send:addr 03 0000 0006 CRC

change password

In setting state, through (long press) 【-】 Switch to the Change Password menu, Displayed at the top of the screen -----, when below display oLPASS, (short press) 【S】,Enter the factory password (1000000), (long press) 【-】 confirm, For password verification, correct display OH, wrong display Err, If the correct display of OH,top dispaly-----below display nEPASS, Enter New Password (long press) 【-】, if the flow meter password change SUCCECC flashing, Exit the settings to return to the running state.

5、 Connection



Function	Terminal	Mode
PLUSE OUT	24V+	24V+
	24V-	24V-
	SOUT	PLUSE OUT
4-20mA	I (+)	24V+
	I (—)	4-20MA+
RS485	+24V	24V+
	24V-	24V-
	A+	485A+
	B-	485A-

EH6400A model electronic meter communication protocol V1.0

communication: MODBUS RTU

Communication parameter : Baud rate 9600bps(optional 4800bps 、 19200bps)

data frame: 8 bit data、 1 stop bit、 1 check bit: none

transmitter query command transmit

01	Instrument address
03	Function code
00	First address
00	
00	length
0A	0A Words
C5CD	Calibration code

flow meter response

01	address
03	function code
14	length
00000000	one-time high byte (integer part)
009A1FDC	one-time low byte (decimals part) unit: L
00000000	total cumulative high byte (integer part)
009A1FDC	total cumulative low byte (decimals part) unit: m3
0000D9AA	Instant value,include 2 bit decimals, unit: m3/h
BBD4	Calibration code