

Safety fence Instruction manual

I. General introduction

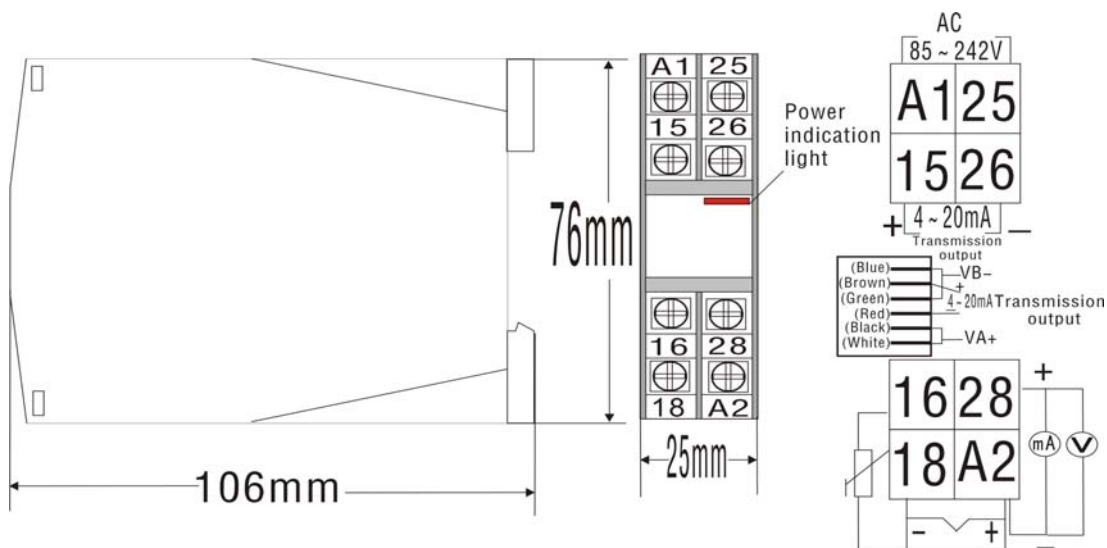
First of all thank you for using our meter, This manual contains instructions for the installation of meters, operations, parameter setting in the PC.

Safety fence is a new type of meter that our Company recently developed, using photoelectric isolation technology, SMT manufacturing process and international standards DIN Rail installation, and have a wide voltage, small size, long life, easy-to-install, and strong anti-interference, and other advantages. Instrumentation is for a group of signal input, two groups simultaneous signal output, communication using ModBus agreement, through RS-485 interface with the PC or PLC-controlled part on-line to concentrate on monitoring and control meters, in connection with the PC Meter can amend the parameters through PC.

II. Technical Index

- 1、 Input type: CU50、 PT100、 K、 E、 J、 T、 S、 R、 WR25、 N、 F2、 0-5V、 1-5V
- 2、 Output precision : 0.5%F.S
- 3、 Output signal: two group 4~20mA(adjustable through parameter OUTH、 OUTL)
- 4、 Overall dimension (mm): 106×76×25
- 5、 Power supply: AC 85~242V 50/60Hz
- 6、 Working circumstance: temperature 0~50℃, humidity < 85%RH without corrode and strong electromagnetism disturb.

III. Size appearance and meter connection scheme (consult)



IV. Code setting mode

Series	code	Name	Remark	Setting range	Ex-Factory
1	Pb	Sensor error amendment	The sensor have deviation can use item to revisal	0~±20.0	0.0
2	FILT	Filt modulus	The first order lag filter coefficient, the value is greater, the performance anti-jamming moment is stronger, but the response time lag. The pressure and flow control of its value should be smaller, temperature and level control should be relatively large	0~50	20

3	OUTH	Allow exports max value	Restrain maximum value of adjust output.	outL~2200	2000
4	OUTL	Allow exports min value	Restrain minimum value of adjust output	0~outH	400
5	LocK	Code lock	0-all the parameter can be revised 1-only the SP can be revised	0~50	0
6	Sn	Input type	'0' Cu50 -50.0~150.0□; '1' Pt100 -199.9~200.0□; '2' Pt100 -199.9~600.0□; '3' K -30.0~1300□; '4' E -30.0~700.0□; '5' J -30.0~900.0□; '6' T -199.9~400.0□; '7' S -30~1600□; '8' R -30.0~1700.0□; '9' WR25 -30.0~2300.0□; '10' N -30.0~1200.0□; '11' Idiosyncratic type ; '12' 0~5V(0~10mA); '13' 1~5V(4~20mA)	0~13	random
7	P-SH	Display the high limit	P-SH decide the display range, the value and unit are decided by factory and client freely.	P-SL~9999	random
8	P-SL	Display the low limit	P-SL decide the display range, the value and unit are decided by factory and client freely.	-1999~P-SH	random
9	Addr	Communication address	The meter's number in the control system	0~63	0
10	BAud	Communication baud rate	'0'1200; '1'2400; '2'4800; '3'9600	0~3	9600

V. Meter communications and parameters amending

When the meter connect the PC through the RS-485, it can amend meter parameters through the PC, parameters order please refer to Table 4-1. The default address for its communications "0", the baud rate for "9600". To connect multiple meters, the PC software address amend for "0", baud rate changed to "9600", at this time connecting on a meter, the menu address parameters will be changed to other numerical parameters (not larger than 63), after editing and then another meter to amend the address. Each meter is the only address, can not be repeated. And so on until the end of amending the connecting instrument.

Note: When the meter amended the address, the address numerical value labeled best on the meter avoiding confusion. PC software use refers to the help function in PC software.

4~20mA or 0~10mA linearity current input can achieve by changing 250Ω or 500Ω resistance to 1~5V or 0~5V voltage signal, and then input from A2、28 terminal.

VI. Fault Analysis and Clearance

Safety fence adopt advanced production process, and have the strict test before leaving factory, it improve the reliability of the meter. The usual fault caused by the wrong operation or parameter setting. If you find the fault couldn't be cope with, please record it, and contact with the agent or us.

Sheet 6-1 is the usual fault of Safety fence in the daily application:

Sheet 6-1 Common fault handling

fault symptom	analysis of causes	Disposal measurement
Abnormal power	1、poor contact of power cord 2、power switch without lose	Check the power
PC display do not correlate with the facts. (display'FF')	1、Sensor model mismatch 2、wrong signal connection	1、check sensor model and meter interior input parameter 2、check signal wire 3、check communication wire
Abnormal output	1、wrong connecting output wire	1、check output connection 2、check parameter OUTH、OUTL