Counting/meter/timer operation manual

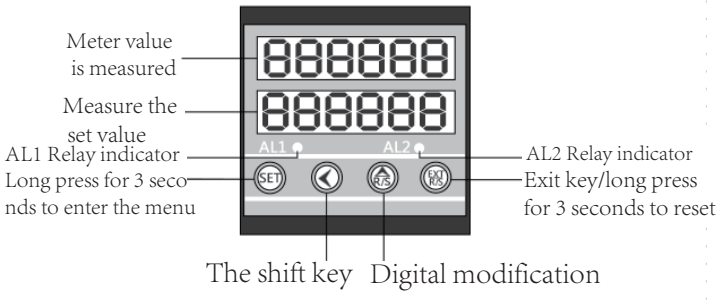
Features:

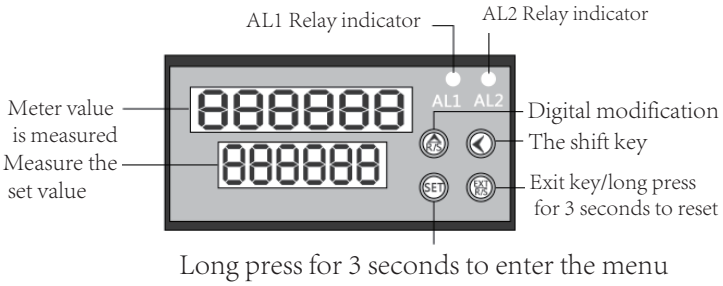
⊙6 digit L ED display
⊙Two independent relay alarm output
⊙With power failure memory data preservation function
⊙NPN and PNP input options available (default NPN)
⊙With rotary encoder input, electric switch input
⊙With relay output can control the equipment start and stop
⊙Panel button reset, set automatic delay reset, back terminal short reset

One: technical parameters

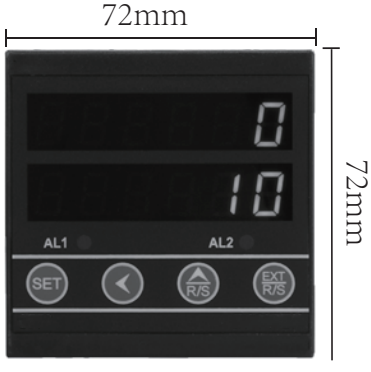
show	6 digit LED display
Electrical source	AC220V (85-240V) /AC380V (85-380V) / DC12V / DC24Voptional
Digital display range	0.00001~999999
Signal input mode	Contact signal/pulse signal (generally used for meter meter encoder)
Relay power	AC250V-5A / DC30V-5A
Function transformation	Count :(conventional, total, lot,)/meter :(conventional, total, lot)
After losing electricity	After the power-off, the data in each line is saved until manual reset is enabled next time
Reset the way	Reset panel zero button, set automatic delay reset, terminal reset
The control mode	Relay contact output
environment temperature	-10°C~50°C
Power is	⩽1W

Two: Panel description

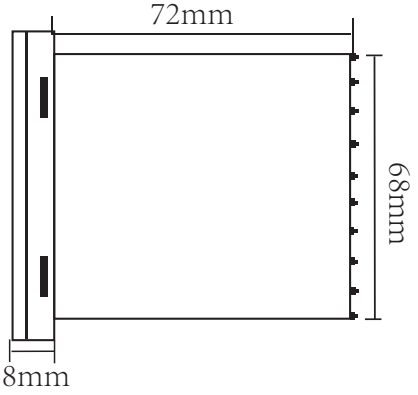




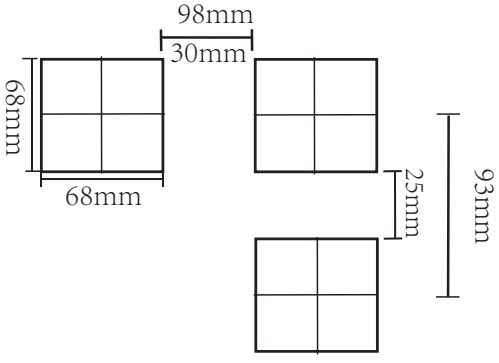
Three: shape size and opening size



■ Panel size

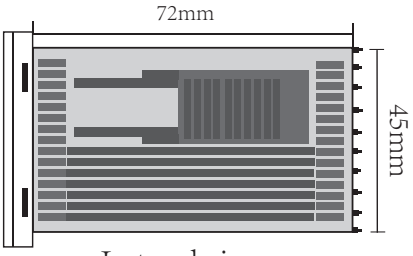


■ Lateral size

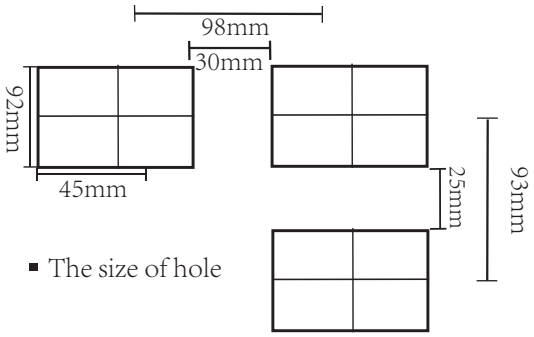


■ The size of hole

■ Panel size



■ Lateral size



■ The size of hole

Four: instrument operation instructions

■ main menu

Press and hold the SET key for 3 seconds to enter the system menu

LoCY 000001 Enter the password 000001 (press R/S to adjust the value)
(Press SET again to enter the next system menu)

SCAL 000001 **Meter count rate setting**
Can be set up0.00001~99.9999

dPSEt 000000. **Instrument display precision decimal point setting**
Note: This menu is not available in batch and total quantity mode

AL1 000020 **AL1 relay preset alarm setting**
(Set a value, when the display value reaches the set value alarm)

AL2 000021 **AL2 relay preset alarm setting**
(Set a value, when the display value reaches the set value alarm)

tIA1 0005.00 **AL1 Alarm time setting (unit: second)**
0.01 to 9999.99 seconds

tIA2 0005.00 **AL2 Alarm time setting (unit: second)**
0.01 to 9999.99 seconds

oUt1 0 **Relay 1 output action mode selection**
Please see the working mode of relay below

oUt2 0 **Relay 2 output action mode selection**
Please see the working mode of relay below

CP 0 **Meter counting, meter sampling frequency selection**
0.1PCS/2 SEC 1.1PCS/1 SEC 2.5PCS/1 SEC 20PCS/1 SEC
2000 PCS/1 second 3000PCS/1 second 6000PCS/1 second

CntSEt 0 **Instrument input signal selection**
0. General signal input (generally used for counting)
1. Encoder signal input (generally used for meter metering)

CL--2 0 **Batch mode, total mode zero selection**
(0. The button cannot be cleared 1. Button can clear zero)
Note: The change menu in batch 3 count and Total 4 count modes are displayed here

PC0 0 **Sensing object time switch setting**
0. Disable the function 1. Enable the function
(See pPCO -PC1 below for details)

PC0tIM 0000.00 **Sensing object time setting**
Note: This menu appears when PC0 turns on the function in this setting time

PC1 0 **Sensing object time switch setting**
0. Disable the function 1. Enable the function
(See pPCO -PC1 below for details)

PC1tIM 0000.00 **Sensing object time setting**
Note: This menu appears when PC1 turns on the function in this setting time

■ Project menu

SET 0
---------- (Menu directory options)
----------(Parameter Settings)

Work normally while holding SET + R/S key to enter 000Cod menu

000Cod 000001 After entering the menu, press R/S to enter the password. 1 Press SET to enter the next menu

Press the SET key to enter the SET mode switching menu

SET 0 Switch between general count, batch count and total count modes

0	conventional	The upper row displays the real-time counting value, and the lower row displays the set value. When the set value is reached, the instrument starts to alarm
3	batch	The upper row shows real-time counting value, the lower row shows counting batch value, when the upper row reaches the preset value, the row adds 1
4	The total	The upper row displays real-time counting values, and the lower row displays cumulative values. When the upper row reaches the set value, it will be reset and counted again. If the lower row does not clear the value, it will be accumulated

Select the mode according to your requirements and press SET to enter the next menu

00tIM1 16.06.18 Factory time (press SET to skip) enter the next menu

Press SET key to enter rESEt communication table switch menu

rESEt 0 Communication meter switch setting
0.Closed 1. Enable the non-standard communication protocol
2. Enable the standard communication protocol

Press the SET key to confirm and then press the EXT R/S exit key to complete the setting

Panel quick setting value description

Normal operation press ◀ to enter AL1 relay alarm value setting menu

AL1 000005 AL1 First stage output alarm value range (000001-999999) When the display value reaches the set value, AL1 outputs an alarm

Normal operation press SET to enter AL1 relay alarm value setting menu

AL2 000005 AL2 Second output alarm value range (000001-999999) When the display value reaches the set value, AL2 outputs an alarm

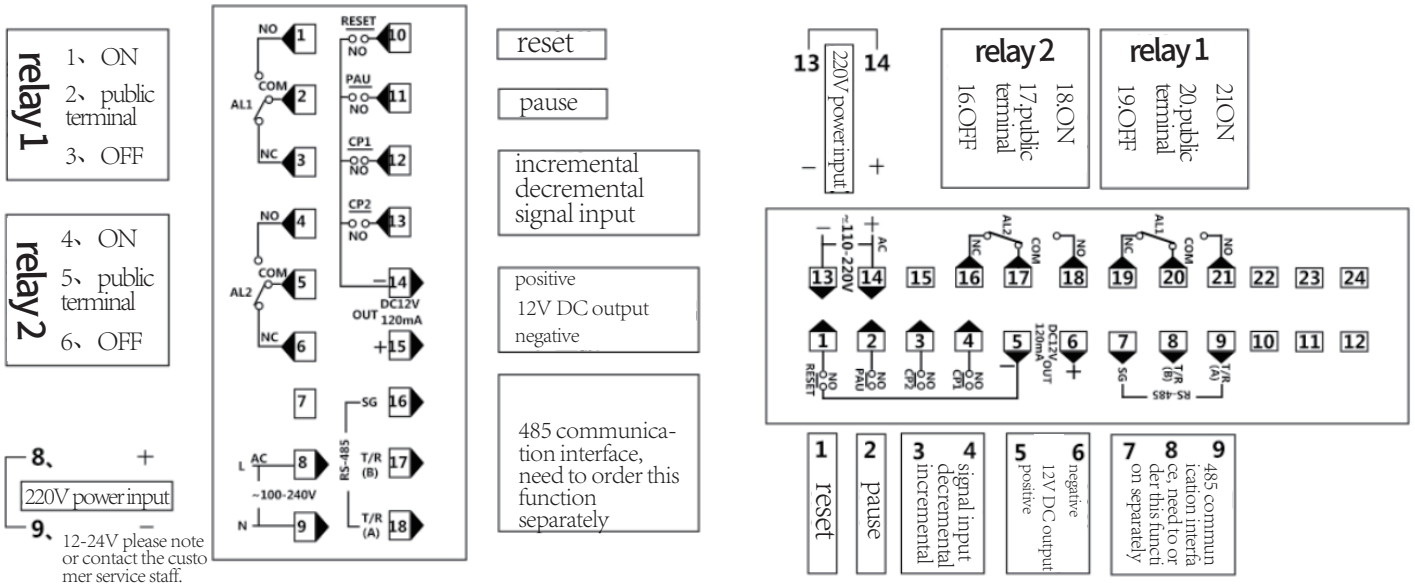
■ Operation mode of relay

(0) Rway	When the display value in the counting process reaches the set value relay output, the display value remains unchanged. After the delay of "T "time, the relay returns, and the counting value is reset at the same time, and the counting starts again.
(1) Nway	When the value displayed in the counting process reaches the set value, the external signal of the relay is reset, the relay reverts, the counting value is reset, and the counting value is reset.
(2) Cway	When the display value in the counting process reaches the set value, the relay outputs, and the counting value immediately returns to zero. After a time delay of T, the relay automatically returns to normal.
(3) Fway	When the display value of the counting process reaches the set value, the signal output of the relay part rises, and the manual or external signal of the relay returns to zero, and the counting starts again.
(4) Bway	When the counting process display value reaches the set value relay output, less than the set value relay disconnect, manual or external signal reset, relay return, counting the value of double zero.
(5) Eway	Only in normal mode, OUT1 is set to 5 to disable one output.

■ Function description of PC0 to PC1

PC0	"PC0" Parameter refers to the time when the probe senses the object, and refers to the time when the object passes in front of the probe (for example: PC0TIA is set to 1 second, the effective signal is counted only when the probe continuously senses the object for more than 1 second)
PC1	"PC1" Parameter refers to the signal interval time between the sensing objects (Example: pc1TIA set to 3 seconds, the probe after sensing the object, every 3 seconds or more to count the next number)

Five: Wiring diagram

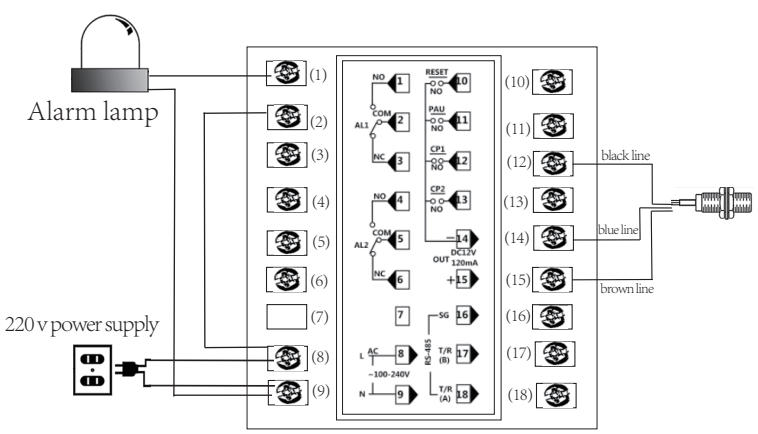
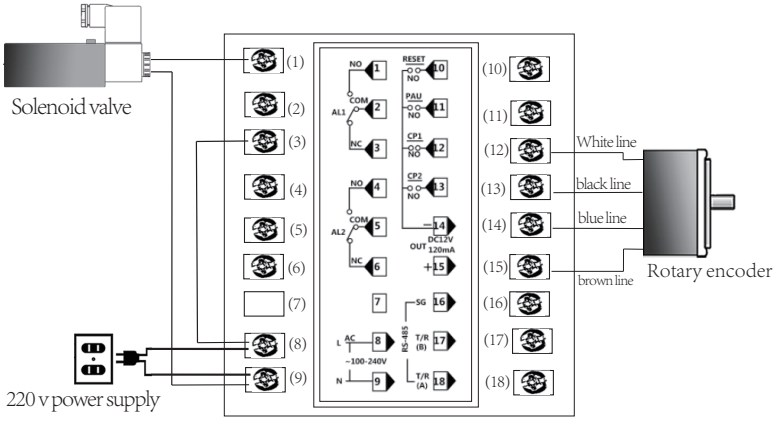


Common induction switch, encoder and meter wheel circuit color map	Proximity switch:	encoder:	meter wheel:
	brown line -- positive V+ The blue line -- negative V- Black line -- SIGNAL A	The red line -- positive V+ Black line -- negative V- Green line -- signal A White line -- B signal	The red line -- positive V+ Black line -- negative V- Green line -- signal A Yellow line -- B signal

Note: if there is any difference between the wiring diagram of the instruction and the actual wiring diagram of the instrument, the actual wiring diagram of the instrument shall prevail

Six: physical wiring diagram

① Induction switch wiring diagram detailed explanation



② Detailed explanation of encoder wiring diagram