4 relay 4-20mA Output AC220V Power Automatic Digital Display Liquid Level Indicator Tank Water Level Controller



Relay 4-20mA Output AC220V Power Automatic Digital Display Liquid Level Indicator Tank Water Level Controller

Product Description

Digital display controller adopts advanced microprocessor to intelligently control.

It is suitable for temperature, humidity, pressure, liquid level, flow, speed and other physical parameters, display and control of detection signal. Also can take high-precision linear correction measurement to various nonlinear input signals.



Technical Specifications

Power supply	AC220V, DC24V			
Input thermal signal	PT100,CU50			

Input non-standard signal	0-100mV/0-400Ω
Input standard signal	0-10mA/4-20mA/0-5V/1-5V/0-10V
Output signal	0-10mA/4-20mA/0-5V/1-5V/0-10V
Control mode	Position Type- On/ OFF, with return difference
Thermocouple	S/R/B/K/N/E/J/T automatic temperature compensation
Power dissipation	≤5W
	1~4 limit control available, LED display.
Control mode	Control mode is delay ON/ OFF with returndifference
	(can be defined by user freely)
Structure	Standard card-in type
Column accuracy	The display accuracy of light column is 1%
Measurement accuracy	0.5%FS±1 Byte
	Environmental temperature: 0~50°C
Using environment	Relative humidity: ≤85RH
	To avoid highly corrosive gas
Resolution	1,0.1,0.01 or 0.001 character
Usage	Fluid measuring instruments
Temperature compensation	0~50°C digital temperature automatic compensation

Intelligent Digital Display Controller Setting

Code	Input type & Range	Code	Input type & Range	Code	Input type & Range
00	S(0~1600°C)	08	Pt100(-200~850°C)	16	mV non-standard signal(0~100mV)
01	R(0~1600°C)	09	Cu50(-50~150°C)	17	Resistance non-standard signal(0~400Ω)
02	B(200~1800°C)	10	0~5V(-1999~9999)	18	Frequency non-standard signal(0~3000Hz)
03	K(0~1300°C)	11	1~5V(-1999~9999)	19	0~5V root(-1999~9999)
04	N(0~1300°C)	12	0~10V(-1999~9999)	20	1~5V root(-1999~9999)
05	E(0~800°C)	13	0~10mA(-1999~9999)	21	0~10mA root(-1999~9999)
06	J(0~650°C)	14	0~20mA(-1999~9999)	22	4~20mA root(-1999~9999)
07	T(-200~400°C)	15	4~20mA(-1999~9999)	23	Full switch input

Primary parameter setting

Long press SET key 3 seconds to enter the following menu first: Every time you press the DEC key, the Parameters are changed in the following order, and they are changed in cycles.

To set the current Parameter, press the SET to enter, and change the value by the SHIFT, INC and DEC Smiths In key, then press the SET to confirm.

If you want to return to	the measurement interface,	long press SET 3 seconds to exit.
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Parameter	Function	Range	Factory Default	Explanation
AH	AH AH Alarm Value		300.0	Show the Alarm Value of AH Alarm
dH	dH AH Alarm Difference		1.0	Show the Difference Value of AH Alarm
AL AL Alarm Value		-1999~9999	200.0	Show the Alarm Value of AL Alarm
dL	dL AL Alarm Difference		1.0	Show the Difference Value of AL Alarm
AHH	AHH Alarm Value	-1999~9999	400.0	Show the Alarm Value of AHH Alarm
dHH	dHH AHH Alarm Difference ALL ALL Alarm Value		1.0	Show the Difference Value of AHH Alarm
ALL			100.0	Show the Alarm Value of ALL Alarm
dLL	ALL Alarm Difference 0~9999		1.0	Show the Difference Value of ALL Alarm
PASS Secondary menu password PASS		0	Show the Alarm Value of ALL Alarm	

Secondary parameter setting



When you see the PASS in the Primary menu, press the SET, type the code 555, and re-press the SET to enter the following menu: Every time you press the DEC key, the Parameters are changed in the following order, and they are changed in cycles. To set the current Parameter, press the SET to enter, and change the value by the SHIFT, INC and DEC key, then press the SET to confirm.

If you want to return to the measurement interface, long press SET 3 seconds to exit.

arameter	Function	Range	Factory Default	Explanation
Sn	Selection of Input signal	0~22	15	See Code selection of Input type
dOt	Decimal point position	0、1、2、3	1	0(No) 1(Ten bit) 2(Hundred bit) 3(Thousand bit)
PUL	AL of measuring range	-1999~9999	0.0	Set the AL measuring range of input signal
PUH	AH of measuring range	-1999~9999	500	Set the AH measuring range of input signal
PbIR	Zero correction	-100~100	0.0	Correction of Zero error of sensor
FILT	Filter coefficient	0.100~9.999	0.100	With the increase of filter coefficient, the display value stable, but the lag increases
K1/SUH	Display mu factor	0.100~9.999	1.000	Set the magnification ratio of input range
OU-A	Transmit output	1, 2, 3	2	1=0~10mA, 2=4~20mA, 3=0~20mA
OU-L	Transmit/AL of graph bar range	-1999~9999		
OU-H	Transmit/AH of graph bar range	-1999~9999		
PH	AH Alarm type	1, 2	1	1 alarm up , 2 alarm down
PL	AL Alarm type	1、2	2	1 alarm up , 2 alarm down
РНН	AHH Alarm type	1、2	SIUU	1 alarm up , 2 alarm down
PLL	ALL Alarm type	1、2	2	1 alarm up , 2 alarm down
InPH	Max value of non-standard signal	0~400	100	Use only when Sn = 16 or 17 (See Note1)
InpL	Min value of non-standard signal	0~400	0	Use only when Sn = 16 or 17 (See Note1)
bAUd	Communication baud rate	1、1、2、3	3	0(1200) 1(2400)214800 3(9600) Unit:bps
Id	Communication address	0~31	1	No more than 31

Note1: When connecting with eletransmission pressure gauge, if range 0~1Mpa, output 0~375Ω, Set Sn as 17, dot=2, PUL=0.00, PUH=1.00, InPL=0, InPH=375, the measuring range will be shown. ethelitetitie

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Product Features

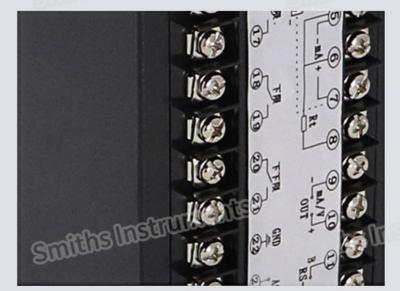


User self setting interface





Electroplating process, anti rust





Dual relav control.





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Product Parameters

- Power supply: AC220V, 50Hz
- •Input signal: Compatible of 22 signals

RS.

- •Output signal: 4 relay
- Measuring accuracy: 0.5%FS
- ●Light column accuracy: 1%
- Power consumption: 5W
- Measuring range: -1999~9999
- Temperature compensation: 0~50
- Control mode: Hysteresis difference
- Working ambient: 0~50C, Humidity:85%



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1st, 4-20mA wiring diagram

Signal (Pressure transmitter: PIN2,

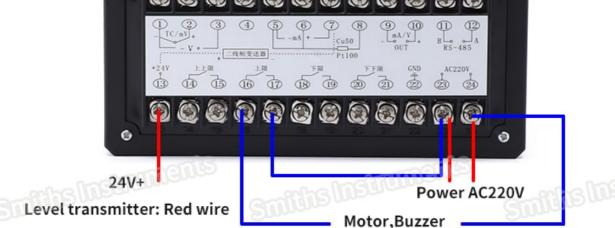
Level transmitter: Black wire)



2nd, AH alarm (drainage)

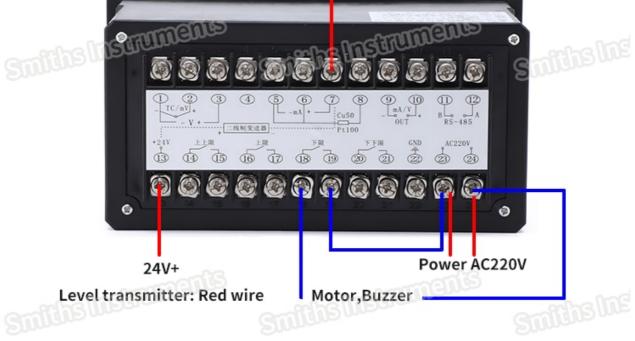
Signal

Level transmitter: Black wire



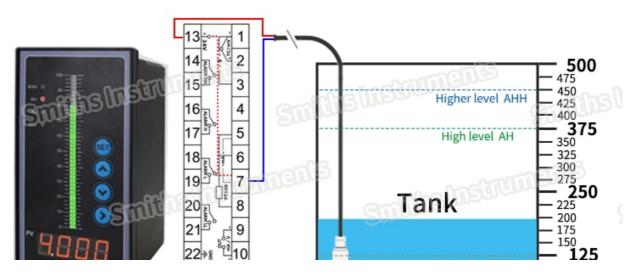
3rd, AL alarm (water replenishment)

Signal Level transmitter: Black wire





1. Liquid level read & monitor & control Solutions of the tank.





2.PM14 panel meter and EL series hydrostatic sensor work on the tank.









