

1.Main Features

- •Support thermocouple, thermal resistance, voltage, current and two-wire transmitter input; suitable for physical measurement and display of temperature, pressure, liquid level, length, etc.; can perform high-precision linear correction on various nonlinear signals .
- Adopt high-brightness LED digital display and high-precision 40-line light bar display to display the measured value clearly and intuitively.
- •Support up to four alarm functions, including two upper limit and two lower limit alarms, which can be independently alarmed.
- •Adopt advanced jumper-free technology to change the index number freely.
- •Have a variety of standard serial two-way communication functions (RS232C, RS-485, RS-422, etc.)
- Equipped with intelligent data collector and configuration software based on Windows XP platform, which can realize networking with the host computer.

2. Model Definition

C803 21 08 HL P T

(1) ② ③ ④ ⑤ ⑥ ⑦

Here is a meter:

- ①The basic function is the measurement display table;
- ②The size of the panel is horizontal type (160X80mm);
- 3 The communication mode is RS-232, and the output mode is relay output;
- 4 The input type is Pt100;
- ⑤ The first alarm is an upper limit alarm, and the second alarm is a lower limit alarm;
 - **6** With DC24V feed output;
 - 7 The power supply mode is AC90-256V power supply.

The meanings of the 7 parts in the instrument model are as follows:

(1)Indicates the basic functions of the instrument

Indicates that the display alarm instrument has linear voltage/current input such as thermocouple, thermal resistance, mV, mA, 5V, 10V, etc., and the measurement accuracy is 0.5.

2 Indicates the dimensions of the instrument panel

Panel 160X80mm (WXH), horizontal, opening 152X76mm

Panel 80X160mm (WXH), vertical, opening 76X152mm

Panel 96X48mm (WXH), horizontal, opening 92X45mm Panel 48X96mm (WXH), vertical, opening 45X92mm

Panel 96X96mm opening 92X92mm, insertion depth 110mm

Panel 72X72mm opening 68X68mm, insertion depth 90mm

Panel 48X48mm opening 44X44mm, insertion depth 90mm

- ③Indicates the communication mode and output mode of the instrument: RS-485 and other communication and relay, 4~20mA and other output can be selected
- ④Indicates the input type of the instrument: you can refer to the code, and the graduation number can be changed freely
- ⑤Indicates the alarm mode of the instrument: the alarm mode of the first, second, third and fourth channels can be switched freely
- ⑥Indicates the additional function of the instrument: optional with 24V feed (if not necessary, it can be omitted)
- Tindicates the power supply of the instrument: DC24V, AC90-265V switching power supply and AC220V can be selected

3.Technical Specifications

• Input specifications (one instrument is compatible): Thermocouple: B, S, K, E, J, T, WRe, etc.

Thermal resistance: Pt100s Cu50 and other remote pressure resistance

Linear voltage: 0~5V, 1~5V, 0~10V, 1~10V, etc. One by one input impedance N250Q

Linear current: 0~10mA, 0~20mA, 4~20mA, etc.---input impedance <250.

Linear resistance: 0~400Q (can be used to measure remote resistance pressure gauge)

- Measuring range: -1999-1999 words
- •Measurement accuracy: 0.5%FS ± 1 word
- •Transmission output: analog output DC0~10mA (load capacity W750Q)

DC4~20mA (load capacity W500Q)

DC0-5V (load capacity W250Q) DC1-5V (load capacity C250Q)

Switch output relay control output---relay 0N/OFF with hysteresis

Contact capacity: AC220V/3A; DC24V/6A (resistive load)

Thyristor control input---SCR (thyristor zero-crossing trigger pulse) output, which can trigger thyristor solid state relay output SSR (solid state relay control signal) output

• Use environment: ambient temperature 0~5. hook

Relative humidity W85RH

Avoid strong corrosive gases

• Supply voltage: AC220V+10-15% (50Hz ± 2Hz

linear power supply)

• Power consumption: W5W

4.Panel Description

① Indicator light: AHH—upper upper limit alarm

AH -- upper limit alarm

AL -- lower limit alarm

ALL—Lower and lower limit alarm

- 240-segment beam: Visually display the ratio of PV value
- ③PV window: display the measured value, in the parameter setting state, display the parameter symbol or set value
- (4) Setting key: used to enter parameter setting state,
- confirm parameter modification, etc.
- ⑤Data increase key,
- **®Data reduction key**
- 7 Data shift key



5. Operating Instructions

5.1 Setting Parameters

In the basic display state, press and hold the SET key for 3 seconds to enter the field parameter table. Use A, V, >, etc. to modify the parameter value, and long press the SET key to exit the parameter setting state. Set PASS=555 to enter the system parameter setting state.

Parameter Name		Description	Setting range	Factory default	
AH Upper limit alarm		When the measured value PV>AH value, the upper limit alarm will be generated. When the measured value PV<(AH-dH) value, the meter will cancel the upper limit alarm.	-1999~9999	300	
dΗ	Upper limit alarm hysteresis	aka dead zone, stagnation. The hysteresis is used to avoid frequent misoperations of the bit adjustment output due to the fluctuation of the measured input value.	0~9999	0	
AL	Lower limit alarm value	When the measured value PV <al alarm="" alarm.<="" and="" be="" cancel="" generated,="" instrument="" limit="" lower="" measured="" pvxal+dl)="" td="" the="" value="" value,="" when="" will=""><td>-1999~9999</td><td>200</td></al>	-1999~9999	200	
dL	Lower limit alarm hysteresis	Same as (dH)	0~9999	0	
АНН	Upper and upper limit alarm value	When the measured value PV>AHH value, the upper limit alarm will be generated, and when the measured value PVX AHH-dHH) value, the meter will cancel the upper limit alarm.	-1999~9999	400	
DHH	Upper limit alarm hysteresis	Same as (dH)	0~9999	0	
ALL Lower and lower limit alarm value		When the measured value PV < ALL value, the lower limit alarm will be generated, and when the measured value PV < (AL + dLL) value, the instrument will cancel the lower limit alarm.	-1999~9999	100	
dLL	Lower and lower limit alarm	Same as (dH)	0~9999	0	
PASS	Password PASS=555		0~9999	0	

5.2 System parameter table (set PASS=555, then press SET key to enter)

		Sn	Input Specs	Sn	Input Specs	Factory parameters	
Sn		0	S	12	0-10V		
		1	R	13	0~10mA		
		2	В	14	0~20mA		
		3	K	15	4~20mA		
		4	N	16	mV signal	45	
	Input Specs	5	E	17	Resistance R non-standard signal		
		6	j l	18	Frequency F non-standard signal	15	
		7	T	19	0~5V square root		
		8	Pt100	20	1~5V square root		
		9	Cu50	21	0~10mA square root		
		10	0~5V	22	4~20mA square root		
		11	1~5V	23	Full switch input		
			dot=0		no decimal point		
		dot=1			decade	1	
dot	decimal point				hundreds		
		dot=3			Thousands		
PUL	PV range lower limit	Set the measurement lower limit of the input signal		er limit of	-999~9900	0.0	
PUH	PV range upper limit	Set the upper measurement range of the input signal		nt range of	-900~9999	500.0	
Pb1A	Zero migration	Set the shift amount of the input zero point		input zero	full scale	0.0	
F1Lt	Filter coefficients	The setting cannot exceed 0.900, otherwise the instrument will make an error			0.100~0.900	0.100	
K 1	Input scale ratio	Set the display input range magnification ratio			1~1.999 times	1.000	
****	First	First transmission output Corresponding to the measured value for linear output		OU-A=1(0~10mA)	-		
OU-A				OU-A=2(4~20mA)	2		
оин	Light column range	Set the measuring light column ra			column range of the input signal	500.0	
		O. ida E.	na rola:	aally	1 - High alarm		
PH Upper limit ala type				2- Low alarm	- 1		
PL	Lower limit alarm type	The definition is the same as the PH term		as the PH	Same as PH	2	
РНН	Upper and upper limit alarm type	The definition	The definition is the same as the PH term		Same as PH	1	
PLL	Lower and lower limit alarm type	The definition	The definition is the same as the PH term		Same as PH	2	
1nPH	Non-standard signal input Maximum value	10~1000mV; 10-400Ω; 2~300Hz		100.0			

1nPL	Non-standard signal input Min.	0~90mV; 0-390Ω; 0~2998Hz		0.0
		munication	0=1200bps	
bAUd	Communication		1=2400bps	
baud	baud rate	Communication speed	2=4800bps	3
			3=9600bps	
1d	Correspondence address	Set the mailing address	0~31	1

6.Example

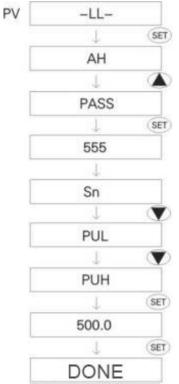
Example 1: Liquid level transmitter 0~5 meters (on the sign), 4-20mA output, output alarm when the water level is greater than 4 meters, and alarm when it is lower than 1 meter (in mm)

Parameters Name		Set Value	Notes	
Sn	Signal input type	15		
dot	Signal input decimal point	1		
PUL	Lower range limit	0.0	PUH is the	
PUH	Upper range limit	500.0	highest range value of the	
AL	Lower limit alarm	100	transmitter	
АН	Upper limit alarm	400		

Example 2: Control the water pump system, lower limit relay hysteresis control (take the liquid level transmitter 5m, start the pump below 1m, and stop the pump above 4m).

Parameters	Parameters Name		Notes	
Sn Signal input type		15		
dot	Signal input decimal point	1		
PUL	Lower range limit	0.0	PUH is the	
PUH	Upper range limit	500.0	highest range value of the	
AL	Lower limit alarm	100	transmitter	
dL	Lower limit alarm return difference	300.0		

The parameter modification process is as follows:



Display input measurement value

...Press and hold for 3 seconds to enter the first-level menu of the instrument

Display the upper limit alarm value menu

...Short press the increase key

Show combination lock

...Short press (SET) key

After setting PASS = 555, press a short key to enter the secondary menu of the instrument

Display graduation number

...Short press the decrease key 2 times

Display range lower limit menu (original 0.0)

...Short press the decrement key once

Display volume limit menu

Short press (SET) key

Set PUH = 500.0 (corresponding to the highest range of the transmitter, in mm)

...Long press (SET) key for 3 seconds







