

智能双通道双光柱数显控制仪

Intelligent dual-channel dual-column digital display controller

注意事项

Matters needing attention

控制仪不要使用在具有高能辐射、大功率高频电磁干扰等场合。

The controller should not be used in high-energy radiation, high-power high-frequency electromagnetic interference and other occasions.

请谨慎使用在涉及医疗、医学实验等与生命相关的设备上

Please be careful to use in medical treatment, medical experiments and other life-related equipment

在易燃、易爆气体或粉尘环境下请将控制仪置于防爆箱内使用并远离发热源

In the flammable, explosive gas or dust environment, please put the controller in the explosion-proof box and away from the heat source

！安全警告

! Safety warning

严格按本说明书给出的接线图配线, 否则会导致控制仪损坏或事故发生

Strictly follow the wiring diagram given in this specification, otherwise it will lead to controller damage or accidents

对控制仪的输入、输出配线时, 请断开电源, 以免引起触电危险

When wiring the input and output of the controller, please disconnect the power supply to avoid the risk of electric shock

本产品故障或许引发重大事故,重要、危险场合使用,请增设强制保护装置

Failure of this product may lead to major accidents, important, dangerous occasions, please add a mandatory protection device

本公司只对本产品的质量负责, 对引起的连带损失与责任, 本公司概不负责

The company is only responsible for the quality of this product, the company is not responsible for the joint and several losses and liability

一、特点

I. characteristics

Cortex-M0内核32位单片机作为控制核心，总线输入方式，响应更快

Adopts 32-bit MCU with Cortex-M0 core as the control core, featuring bus input mode for faster response.

1、两通道都可以输入不同的 18 种信号,同时测量、显示、控制和变送输出

1, two channels can input different 18 kinds of signals, at the same time measurement, display, control and transmission output

2、模拟量变送输出, RS485 通讯输出,方便连接 DCS、PLC、触摸屏等

2, analog variable output, RS485 communication output, convenient connection DCS, PLC, touch screen, etc.

3、最多八路继电器输出, 每一通道可单独设定报警值

3, up to eight relay output, each channel can be set separately alarm value

4、参数设定值可以一键自动恢复出厂设定

4, the parameter setting value can be automatically restored by one key

二、技术参数:

II. Technical parameters:

1、工作电源:AC/DC85~240V/(高压型)DC24V(直流低压型,需定制) 2、输入信号:

1. Power supply: AC/DC85 ~ 240V/(high voltage) DC24V (DC low voltage)2. Input Signal:

输入信号	代码	选择热电	输入信号	代码
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Input signal	Code	阻、热电偶 输入时,量程 会自动 按国 标量程显 示, 控制仪会 自 动隐藏 DOT PL、PH 参 数 Select the thermal resistance, thermocou ple input, the range will automatical ly, according to the national standard range display, control instrument will automatical ly hide DOT PL, PH parameters	Input signal	Code
T 型热电偶 T-type thermocou ple	E-E E-E		Cu50 热电阻 CU50 thermal resistance	ELSO Elso
R 型热电偶 R-type thermocou ple	$E - r$		0-375Ω 电阻 0-375ω resistor	375
J 型热电偶 J-type thermocou ple	と-J -”		DC0-75mV DC0-75 MV	0-75 0-75
WAR325 热 电偶 WAR325	E-E E-E		DC0-30mV DC0-30 MV	0-30 0-30
B 型热电偶 Type B thermocou ples	E-6 E-6		DC0-5V DC0-5V	5.0
S 型热电偶 S-type thermocou ple	E-5 E-5		DC0-10V DC0-10V	III. III.
K 型热电偶 Type K thermocou ples	E-F E-F		DC0-20mA DC0-20mA	0-20 0-20
E 型热电偶 Type E thermocou ples	E-E E-E		DC0-10mA DC0-10mA	$\sigma - i\sigma$
Pt100 热电 阻 PT100 thermistor	P IOD Piod		DC4-20mA DC4-20mA	4-20 4-20

3、基本误差:0.2%FS

Basic error: 0.2% FS

4、测量速率:20 次/秒

Rate of measurement: 20 times per second

5、显示刷新时间:1 次/秒

Display refresh time: 1 time per second

6、馈电输出:DC24V/200mA

Feed output: DC24V/200mA

7、变送输出负载能力: ≥ 500 欧姆

Variable output load capacity: ≥ 500 ohms

8、变送输出精度:0.2%

Accuracy of transmitter output: 0.2%

9、通讯规则:RS485 ModbusRTU 协议

Communication Rules: RS485 MODBUSRTU protocol

10、继电器触点容量:AC250V/3A

Relay contact capacity: AC250V/3A

11、工作环境: -10~50°C 10~95%RH

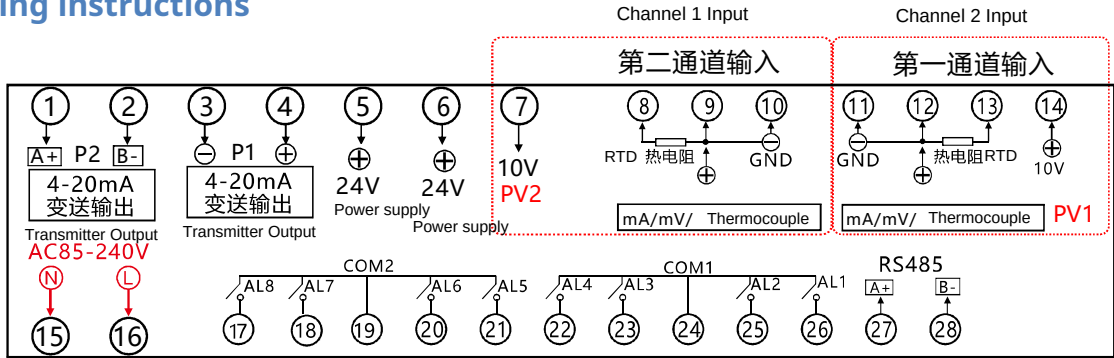
Working Environment: -10 -50 °C 10-95% RH

12、外形尺寸及安装开孔:见产品选型列表

Dimensions and mounting openings: see product selection list

三、接线说明

Wiring instructions



注：箭头朝向端子号，都是输入端子，如11、12、13、14号
箭头离开端子号，都是输出接线：如3、4、5、6号

Note: Terminals with arrows pointing to pin numbers are input terminals (e.g. Pin 11,12, 13, 14).
Note: Terminals with arrows pointing away from pin numbers are output wiring terminals (e.g. Pin 3, 4, 5, 6).

四、接线详解

Detailed explanation of wiring

信号类型 Types of signals	第一通道输入 First channel input	第二通道输入 Second channel input
两线制 4-20mA 变送器 Two-wire 4-20mA transmitter		
三线制 4-20mA 变送器 Three-wire 4-20mA transmitter		
热电阻 PT100、CU50 Thermal Resistance PT100, CU50		
热电偶 mV Thermocouple MV		
电压信号 Voltage signal		
三线制 电压输出变送器 Three-wire, voltage-output transmitter		

注、受外壳端子数量限制, RS485 通讯输出引线位置会按具体控制仪选型调整位置, 请以实际产品上所附接线图为准。

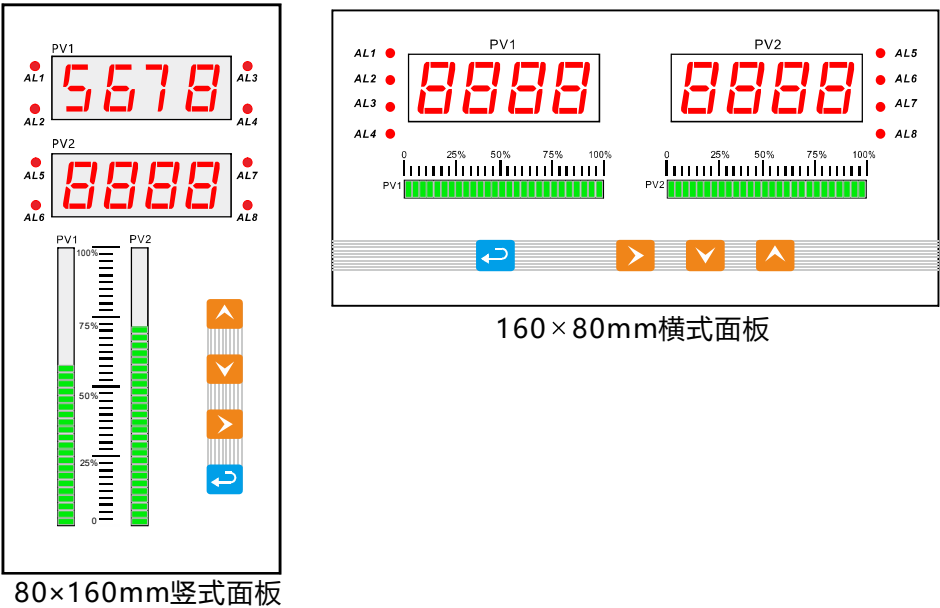
Note: Due to the limitation of the number of housing terminals, the position of RS485 communication output lead will be adjusted according to the specific controller selection. Please refer to the wiring diagram attached to the actual product.

五、面板说明

V. Panel description

5.1、面板说明

5.1 panel notes



5.2、故障代码

5.2 fault codes

o P E n	热电偶烧断或者输入开路 mV 信号 输入开路 Thermocouple burn-out or input open MV signal input open
LLLL	显示数据小于-1999 Display data less than -1999
HHHH	显示数据大于 9999 输入信号大于 最大输入范围 Display data greater than 9999 input signal greater than maximum input range

5.3、按键说明

5.3. Keystroke instructions

- 	设定键 Setting keys	进入设定,确认参数设定,长按 3 秒,保存并退出设定 Enter the setting, confirm the parameter setting, hold down 3 seconds, save and exit the setting
	移位键 Shift key	向右循环移动闪烁设定位 Move the blink setting in a right loop
	减小键 Reduce key	向下选择参数选项或者减小闪烁设定位数值 Select the parameter option down or reduce the flicker setting bit value
	增加键 Add Keys	向上选择参数选项或者增加闪烁设定位数值 Select the parameter option up or increase the blinking setting bit value
	减小键+增加键 Decrease key + increase key	两键同时按下 8 秒,所有参数恢复出厂设定,慎用 Press the two keys for 8 seconds at the same time. All parameters are restored to the factory settings

六、产品选型

Six, product selection

Code						Destription
DB92	7	- 4	B	R	P	Intellegent dual chanel, dual bargraph
Size	7					80x160mm, hole 75x150mm, vertical type
	8					160x80mm, hole 150x75mm, horizontal type
Relay output	Blank					Non Relay output
	-4					2 relay output of each chanel
	-8					4 relay output of each chanel
Analog transmittion output	Blank					Non analog output
	B					4-20mA / 0-20mA of each chanel
	B2					0-10V / 0-5V of each chanel
RS485 output	Blank					Non Modbus RS485
	R					RS485通讯输出
24VDC feed output	Blank					Non feed output
	P					DC24V/200mA馈电输出
Main power supply	Blank					AC/DC85-240V工作电源
	D					DC24V工作电源

XMG927-4BRP：外形尺寸 80×160mm（竖式），每一通道配置 2 路继电器，两路 4-20mA 电流输出，RS485 通讯输出，DC24V 馈电电源，工作电源 AC/DC85-240V

DB927-4BRP, vertical 80×160mm, 2 relays per channel, 4-20mA & RS485 outputs, 24VDC sensor excitation, power input AC/DC 85~240V.

七、输入、输出量程设定

Input and output range setting

7.1、参数设定流程

7.1. Process of parameter setting



7.2、输入、输出量程设定参数列表；进入密码:1001,长按 D: 3 秒保存并退出

7.2 input, output range setting parameter list; enter password: 1001, Hold D: 3 seconds to save and exit

参数符号 Parameter	参数意义 Parameter	设定说明 Description of	出厂设定 Factory setup
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symbols	meanings	settings	
IE 9 IE 9	第一通道输入信号类型 First channel input signal type	见“二技术参数”, 第 2 说明 See“Technical Parameters II”, note 2	0-75 0-75
lda E LDAE	第一通道显示小数点 The first channel shows the decimal point	见后说明 See explanation	0
IPL IPL	第一通道显示下限或零点 The first channel shows the lower limit or zero point	输入传感器/变送器的量程下限 Lower range of input transducer/transmitter	0000
IPH IPH	第一通道显示上限或满度 The first channel shows the upper limit or fullness	输入传感器/变送器的量程上限 Upper limit of input sensor/transmitter range	7500
1669	第一通道变送输出信号类型 Type of first channel transmitter output signal	见后说明 See explanation	4-20 4-20
16 L	第一通道变送输出下限或零点 Lower limit or zero point of the first channel transmitter	显示 1bL 时,变送输出信号最小 When 1BL is displayed, the transform output signal is minimum	0000

	output		
16 H	第一通道变送输出上限或满度 1st channel variable output cap or full scale	显示 1bH 时,变送输出信号最大 When the display is 1BH, the transform output signal is maximum	7500
P B	第一通道显示下限或零点迁移 The first channel shows the lower limit or zero point migration	-1999~9999 见后说明 - 1999 ~ 9999 see note	0000
IPP IPP	第一通道显示上限或满度放大比例 The first channel shows the upper limit or full scale magnification ratio	0.500 ~1.500 见后说明 0.500-1.500 see explanation	1.000
IFIE IFIE	第一通道显示值滤波 First channel display value filtering	0-10 见后说明 0-10 see note after	0
ILE L Ilel	第一通道光柱显示下限或零点 The first channel light bar shows the lower limit or zero point	显示 1LCL 时,光柱全部熄灭 When 1LCL is displayed, all light bars are extinguished	0000
ILE H	第一通道光柱显	显示 1LCH 时,光	7500

Ileh	示上限或满度 The first channel light bar shows the upper limit or fullness	柱全部点亮 When 1LCH is displayed, the bars are all lit up	
己 E 9 No. 9	第二通道输入信号类型 Second channel input signal type	见技术参数三,第 2 说明 See Technical Parameter 3, description 2	0-75 0-75
Edot Edot	第二通道显示小数点 The second channel shows the decimal point	见后说明 See explanation	0
CPL CPL.	第二通道显示下限或零点 The second channel shows the lower limit or zero point	输入传感器/变送器的量程下限 Lower range of input transducer/transmitter	0000
CPH cPH	第二通道显示上限或满度 The second channel shows the upper limit or fullness	输入传感器/变送器的量程上限 Upper limit of input sensor/transmitter range	7500
2669	第二通道变送输出信号类型 Type of second channel transmitter output signal	见技术参数三,第 2 说明 See Technical Parameter 3, description 2	4-20 4-20
266	第二通道变送输出下限或零点	显示 2PL 时,变送输出信号最小	0000

	Lower limit or zero point of the second channel transmitter output	When 2PL is displayed, the transform output signal is minimum	
BB BB	第二通道变送输出上限或满度 Upper limit or fullness of second channel transmitter output	显示 2PH 时,变送输出信号最大 Display 2 ph, the maximum output signal transform	7500
286	第二通道显示下限或零点迁移 The second channel shows lower bound or zero point migration	-1999~9999 见后说明 - 1999 ~ 9999 see note	0000
CPP CPP	第二通道显示上限或满度放大比例 The second channel shows the upper limit or full scale magnification ratio	0.500 ~1.500 见后说明 0.500-1.500 see explanation	1.000
effe Effe	第二通道显示值滤波 Second channel display value filtering	0~10 见后说明 See 0 ~ 10 for instructions	0
ELEL Elel	第二通道光柱显示下限或零点	显示 2LCL 时,光柱全部熄灭	0000

	The second channel light bar shows the lower limit or zero point	When 2LCL is displayed, the light bar goes out completely	
ZLE H Zleh	第二通道光柱显示上限或满度 The second channel light bar shows the upper limit or fullness	显示 2LCH 时,光柱全部点亮 When 2LCH is displayed, the bars are all lit up	7500
bRad Brad	通讯波特率 Baud rate of communication	480、960、1920 0 480,960,1920	9600
ld LD	本机地址 Local address	001-125 001-125	001
End End	结束标志,全部参数完毕,长按 3 秒退出 End flag, all parameters complete, press 3 seconds to exit		

7.3、参数说明,以第一通道参数为例

7.3. Parameter description, take the first channel parameter as an example

IEY:

IEY:

输入信号类型选择:控制仪两个通道都有可以输入不同的 18 种信号,具体的输入信号代码请参考说明书第二项“技术参数”输入信号表格中的说明

Input signal type selection: two channels of the controller can input different 18 kinds of signals, the specific input signal code please refer to

the manual of the second item“Technical parameters” input signal table description

当输入信号选择为热电阻、热电偶时, DOT、PL、PH 参数隐藏不再显示,控制仪按照国标量程显示。

When the input signal is thermal resistance, thermocouple, Dot, PL, PH parameters hidden no longer show, the controller in accordance with the national standard range display.

IFL/IFH :

IFL/IFH:

传感器、变送器量程范围, PL 为量程下限或零点, PH 为量程上限或满度,此参数的设定要和配接的传感器、变送器铭牌上的量程一致。

Sensor, transmitter range, PL is the lower limit of range or zero, PH is the upper limit of range or full scale, this parameter should be set with the matching sensor, transmitter range on the nameplate.

idot:

IDOT:

小数点位数,如量程为 0-100℃的温度变送器,小数点设定 0, PH 设定为 100,分辨率为 1℃,如果小数点设定 1, PH 就设定为 100.0,最大分辨率提高至 0.1℃。

The number of decimal places. For example, on a temperature transmitter with a range of 0-100 °C, the decimal point is set to 0, the PH is set to 100, and the resolution is 1 °C. if the decimal point is set to 1, the PH is set to 100.0, the maximum resolution is increased to 0.1 °C.

0:0000; 1: 000.0; 2: 00.00; 3: 0.000;

0.0000; 1:000.0; 2:00.00; 3:0.000;

输入信号设定为热电阻时,默认 1 位小数点,输入信号设定为热电偶时,默认无小数点
1619

When the input signal is set to the thermal resistance, the default is 1 decimal point. When the input signal is set to thermocouple, the default is no decimal point 1619

4-20:4-20mA 电流输出 (1-5V/1-10V); 0-20:0-20mA 电流输出(0-10V) II-II:0-10mA 电流输出(0-5V)

4-20:4-20mA current output (1-5V/1-10V) ; 0-20:0-20mA current output (0-10V) II-II: 0-10mA current output (0-5V)

IbL :变送输出下限,变送输出最小信号(4mA 或者 0mA)时,对应的显示值 IbH :变送输出上限,变送输出最大信号(10mA 或者 20mA)时,对应的显示值举例: $IbEY$:4-20; IbL :000.0; IbH :100.0

: the lower limit of the variable output, when the variable output minimum signal (4mA or 0mA) , the corresponding display value: the upper limit of the variable output, when the variable output maximum signal (10mA or 20mA) , the corresponding display value example: $Ibey$: 4-20; IBL : 000.0; IBH 100.0

显示值在 0.0-100.0 之间线性变送输出 4-20mA,显示值 50.0 时,输出 12mA。IPE:

The display value varies linearly from 0.0 to 100.0 with an output of 4-20mA, and 12MA with a display value of 50.0. IPE:

显示量程零点迁移,修正后下限或零点显示值=修正前下限或零点显示值+ Pb Pb 的修改,不影响上限满度显示值,显示值越接近 PH ,修正作用越弱,显示为 PH 时, Pb 的修正作用为零,见后图示。

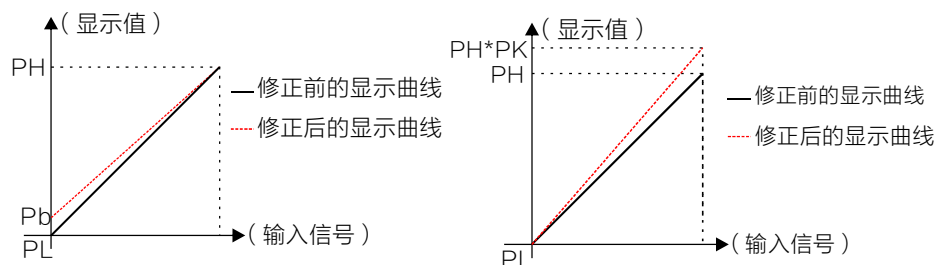
Display range zero migration, corrected lower limit or zero display value = corrected lower limit or zero display value + change, does not affect the upper limit full display value, the closer the display value, the weaker the correction effect, when the display, the correction effect is zero, see the chart after.

$1PF'$: 显示量程上限满度修正,修正后上限或满度值= $PH*PK$.

: show Upper Range fullness correction, upper range or fullness value after correction = $Ph * PK$.

举例:4-20mA 输入,20mA 显示 7500, PK 设定 1.002,输入 20mA,满量程显示 $7500*1.002=7515$ IFIE:

Example: 4-20mA input, 20mA display 7500, PK setting 1.002, input 20mA, full range display $7500 * 1.002 = 7515$ ifie:



数字滤波系数,增加滤波系数,显示值会平滑稳定,显示刷新会有明显滞后。

Digital filter coefficient, increase the filter coefficient, display value will be smooth and stable, display refresh will have a significant lag.

PL 、 PH 、 $ILEL$ 、 $ILEH$ 之间的设置关系:

The relationship between the settings:

PH 是数字显示上限或满度, 这个设置要和变送器铭牌上的量程满度设置一致,

PH is the numerical indication of the upper limit or fullness. This setting should be consistent with the range fullness setting on the transmitter nameplate,

LCL 、 LCH 为模拟光柱显示满量程。

LCL , LCH display full range for analog beam.

举例: 测量水池水位,水池深 5 米,配变送器量程也是 5 米,

For example: measure the water level in a tank with a depth of 5 meters and a transmitter with a range of 5 meters,

$PL:0.00, PH:5.00, ILEL:0.00, ILEH:5.00$;

;

如果水池深 5 米,配变送器量程是 6 米,

If the tank is 5 meters deep and the range of the transmitter is 6 meters,

$PL:0.00, PH:6.00, ILEL:0.00, ILEH:5.00$;

;

bF_1d :

:

通讯波特率,4800:4800bit/S ; 9600:9600bit/S ; 1920:19200bit/S

4800:4800 bit/s; 9600:9600 bit/s; 1920:19200 bit/s

八、继电器报警参数设定

Relay alarm parameter setting

8.1、继电器报警参数列表,进入密码:2002,长按 . 3 秒保存并退出

8.1, relay alarm parameter list, enter password: 2002, Long Press. 3 seconds save and exit

参数符号 Parameter symbols	参数意义 Parameter meanings	出厂设定 Factory setup
FIFI Fifi	第一通道第一报警继电器 AL1 吸合值 First channel first alarm relay AL1 pull-in value	500
all All	第一通道第一报警继电器 AL1 释放值 First channel first alarm relay AL1 release value	250
AHE Ahe	第一通道第二报警继电器 AL2 吸合值 First channel second alarm relay AL2 pull-in value	1000
ALZ Alz	第一通道第二报警继电器 AL2 释放值 First channel second alarm relay AL2 release value	750
AHB AHB	第一通道第三报警继电器 AL3 吸合值 First channel third alarm relay AL3 pull-in value	1500
AL3 Al3	第一通道第三报警继电器 AL3 释放值	1250

	First channel third alarm relay AL3 release value	
AHY Ahy	第一通道第四报警继电器 AL4 吸合值 First channel fourth alarm relay AL4 pull-in value	2000
ALY Aly	第一通道第四报警继电器 AL4 释放值 First Channel 4 alarm relay AL4 release value	1750
AHS AHS	第二通道第一报警继电器 AL5 吸合值 Second Channel first alarm relay AL5 pull-in value	500
ALS Als	第二通道第一报警继电器 AL5 释放值 Second Channel first alarm relay AL5 release value	250
AHE Ahe	第二通道第二报警继电器 AL6 吸合值 Second channel second alarm relay AL6 pull-in value	1000
ALG Alg	第二通道第二报警继电器 AL6 释放值 Second Channel second alarm relay AL6 release value	750
FIFT FIFT	第二通道第三报警继电器 AL7 吸合值 Second channel third alarm relay	1500

	AL7 pull-in value	
AL7 Al7	第二通道第三报警继电器 AL7 释放值 Second channel third alarm relay AL7 release value	1250
AHE Ahe	第二通道第四报警继电器 AL8 吸合值 Second Channel 4th alarm relay AL8 pull-in value	2000
ALE Ale	第二通道第四报警继电器 AL8 释放值 Second Channel 4 alarm relay AL8 release value	1750
End End	结束标志,全部参数完毕,长按 3 秒退出 End flag, all parameters complete, hold 3 seconds to exit	

8.2、报警设定说明

8.2. Instructions for alarm setting

每一通道最多配置四路继电器, 继电器配置和产品选型对照如下:

A maximum of four relays per channel can be configured. Relay configuration and product selection are as follows:

	AL1 Al1	AL2 Al2	AL3 Al3	AL4 Al4	AL5 Al5	AL6 Al6	AL7 Al7	AL8 Al8
四路继电器输出 Four-way	第一通道第一继电器 First	第一通道第二继电器 First	无	无	第二通道第一继电器 Chan	第二通道第二继电器 Seco	无	无

relay, output	chan nel, first relay	chan nel, secon d relay			nel two, relay one	nd Chan nel, secon d relay		
八路 继电器 输 出 8- way relay, outp ut	第一 通道 第一 继电器 First chan nel, first relay	第一 通道 第二 继电器 First chan nel, secon d relay	第一 通道 第三 继电器 Chan nel 1, Relay 3	第一 通道 第四 继电器 First chan nel, fourt h relay	第二 通道 第一 继电器 Chan nel two, relay one	第二 通道 第二 继电器 Seco nd Chan nel, secon d relay	第二 通道 第三 继电器 Chan nel 2, Relay 3	第二 通道 第四 继电器 Chan nel two, relay four

1:一个继电器需要设定吸合值和释放值, 吸合值和释放值的差就是控制回差控制仪会根据每一个继电器设定的吸合值和释放值的大小关系,自动判断继电器是上限报警还是下限报警,

1: a relay needs to set the pull-in value and the release value, the difference between the pull-in value and the release value is to control the return difference. The controller will set the pull-in value and the release value for each relay, automatically determine whether the relay is an upper limit alarm or a lower limit alarm,

2:当吸合值设定大于释放值设定,做上限报警；当吸合值设定小于释放值设定,做下限报警

2: when the pull-in value setting is greater than the release value setting, do upper limit alarm; when the pull-in value setting is less than the release value setting, do lower limit alarm

以 AL1 继电器为例

Take AL1 relay as an example

上限报警设定:

Upper alarm setting:

AH1 设定 50.0, AL1 设定 45.0, $AH1 > AL1$, 上限报警模式, 当测量显示值大于 50.0, 继电器吸合, 当测量显示值下降, 小于 45.0 时, 继电器释放。

AH1 set to 50.0, AL1 set to 45.0, $AH1 > AL1$, upper alarm mode, when the measurement display value is greater than 50.0, the relay pull-in, when the measurement display value decreases, less than 45.0, the relay release.

下限报警设定:

Lower limit alarm setting:

AH1 设定 100.0, AL1 设定 105.0, $AH1 < AL1$, 下限报警模式, 当测量显示值小于 100.0, 继电器吸合, 当测量显示值上升, 大于 105.0 时, 继电器释放。

AH1 setting 100.0, AL1 setting 105.0, $AH1 < AL1$, lower limit alarm mode, when the measurement display value is less than 100.0, the relay pull-in, when the measurement display value rises, greater than 105.0, the relay release.

上限报警继电器动作图示 Action diagram of upper limit alarm relay	上限报警继电器动作规则 AH1>AL1:上限报警；AH1=AL1:报警关闭 PV>AH1 继电器吸和 PV<al1 继电器释放< td=""></al1 继电器释放<> Upper limit alarm relay action rule AH1 > AL1: upper limit alarm; AH1 = AL1: alarm off PV > AH1 relay suction and PV < AL1 relay release < TD = ""></AL1 relay release <>
下限报警继电器动作图示	下限报警继电器动作规则 AH1<al1:

Action diagram of lower limit alarm relay	下限报警；ah1=al1:报警关闭 pv<ah1 继电器吸和="" pv="">AL1 继电器释放</al1:下限报警； ah1=al1:报警关闭> Lower limit alarm relay action rule AH1 < AL1: lower limit alarm; Ah1 = AL1: alarm off PV < AH1 relay suction sum = "" pv = ""> AL1 relay release </AL1: lower limit alarm; Ah1 = AL1: alarm off >
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九、设定举例:

Ix. Setting example:

工程实例:5 米高的储液罐,安装了一台液位、温度同时测量的变送器,液位计量程 0-6 米,输出 4-20mA,温度测量输出信号 PT100,第一通道显示液位高度,第二通道显示温度,液位超过 4 米,高位报警,低于 0.8 米,低位报警,温度超过 90°C ,超温报警,温度低于 5.0°C ,低温报警。

Engineering examples: a 5-meter-high liquid storage tank is installed with a transmitter for simultaneous measurement of liquid level and temperature. The liquid level meter has a range of 0-6 meters and an output of 4-20 Ma. The temperature measurement output signal PT100, and the first channel shows the liquid level height, the second channel shows temperature, liquid level over 4 meters, high alarm, below 0.8 meters, low alarm, temperature over, over temperature alarm, temperature below, low temperature alarm.

液位 0-5 米,温度 0-100°C之间变送输出两路 4-20mA 信号,送至 PLC 采集。

Liquid level 0-5 meters, temperature between 0-100 °C transmission output two 4-20mA signal, sent to the PLC acquisition.

输入、输出量程设定举例如下:

Input and output range setting examples are as follows:

参数符号 Parameter symbols	参数意义 Parameter meanings	设定值 Set value	设定说明 Description of settings
IEY IEY	第一通道输入信号类型 First channel input signal type	4-20 4-20	第一通道液位信号是 4-20mA The first channel level signal is 4-20mA
lda E LDAE	第一通道显示小数点 The first channel shows the decimal point	3	量程 6 米,显示 6.000,三位小数点 Measuring range 6 meters, showing 6.000,3 decimal places
<i>IPL</i>	第一通道显示下限或零点 The first channel shows the lower limit or zero point	0.000	4mA 输出时对应显示 0.000 4MA output corresponds to 0.000
IPH IPH	第一通道显示上限或满度 The first channel shows the upper limit or fullness	6.000	20mA 时输出对应显示 6.000 Output at 20mA shows 6.000
1659	第一通道变送输出信号类型	4-20 4-20	变送输出信号 4-20mA

	Type of first channel transmitter output signal		4-20mA
16 L	第一通道变送输出下限或零点 Lower limit or zero point of the first channel transmitter output	0.000	显示最小 0.000 米时,输出 4mA Display minimum 0.000 meters, output 4MA
H H	第一通道变送输出上限或满度 1st channel variable output cap or full scale	6.000	显示最大 6.000 米时,输出 20mA Display maximum 6.000 meters, output 20mA
P B	第一通道显示下限或零点迁移 The first channel shows the lower limit or zero point migration	0.000	下限、零点无修正 Lower bound, zero without correction
IPP IPP	第一通道显示上限放大比例 The first channel shows the upper magnification ratio	1.000	上限、满度无修正 Cap, full without correction
IFIE IFIE	第一通道显示值滤波 First channel display value filtering	0	无滤波 Unfiltered

ILEL Ilel	第一通道光柱显示下限或零点 The first channel light bar shows the lower limit or zero point	0.000	显示 0.000 米时光柱全部熄灭 Display 0.000 meter time column all extinguished
ILE H Ileh	第一通道光柱显示上限或满度 The first channel light bar shows the upper limit or fullness	5.000	显示 5 米时光柱全部点亮,罐高 5 米 When the display is 5 meters, the light beam is fully lit, and the tank is 5 meters high
269	第二通道输入信号类型 Second channel input signal type	P100 P100	第二路输入信号是 PT100 The second input signal is PT100
Edia E Ediae	第二通道显示小数点 The second channel shows the decimal point	2DOT、2PL、2PH 三个参数跳过不出现 2DOT, 2PL, 2PH skip not present	
PPL PPL	第二通道显示下限或零点 The second channel shows the lower limit or zero point	输入信号是热电偶、热电阻时, when the input signals are thermocouples and thermal resistors,	
CPH cPH	第二通道显示上限或满度 The second channel shows	控制仪按照国标规定量程显示,不需要设定 The controller displays in accordance with the national	

	the upper limit or fullness	standard range, no setting is required	
2669	第二通道变送输出信号类型 Type of second channel transmitter output signal	4-20 4-20	变送输出 4- 20mA Transmission output 4-20mA
26 L 26l	第二通道变送输出下限或零点 Lower limit or zero point of the second channel transmitter output	0.0	0℃时变送输出 4mA 4MA at 0 °C
26 H 26h	第二通道变送输出上限或满度 Upper limit or fullness of second channel transmitter output	150.0	150℃时变送输出 20mA 20mA at 150 °C
PPb PPb	第二通道显示下限或零点迁移 The second channel shows lower bound or zero point migration	0.0	下限、零点无修正 Lower bound, zero without correction
ZPP ZPP	第二通道显示上限放大比例 The second channel shows the upper magnification ratio	1.000	上限、满度无修正 Cap, full without correction

effe Effe	第二通道显示值 滤波 Second channel display value filtering	0	无滤波 Unfiltered
ELEL Elcl	第二通道光柱显示 下限或零点 The second channel light bar shows the lower limit or zero point	0.0	显示 0.0℃时光 柱全部熄灭 Display 0.0 °C light beam all extinguished
PLEH Pleh	第二通道光柱显示 上限或满度 The second channel light bar shows the upper limit or fullness	150.0	显示 150.0℃时, 光柱全部点亮 At 150.0 °C, the bar is fully illuminated
<i>BF U d</i>	通讯波特率 Baud rate of communicatio n		按要求 As requested
ld LD	本机地址 Local address		按要求 As requested
End End	结束标志,全部参数完毕,长按 ->秒退出 End flag, all parameters complete, press-> Seconds to exit		