XC7294

Four-channel Status Quantity Inspection Alarm Controller

User Manual

File Version: V25.7.5

XC7294 using the standard ,easy access to PLC，DCS and other instruments or systems for monitoring carbon dioxide@4 state quantities.The internal use of high-precision sensing core and related devices to ensure high reliability and excellent long-term stability,can be customized RS232,RS485,CAN,4-20mA,DC0~5V\10V,ZIGBEE,Lora,WIFI,GPRS and other output methods.
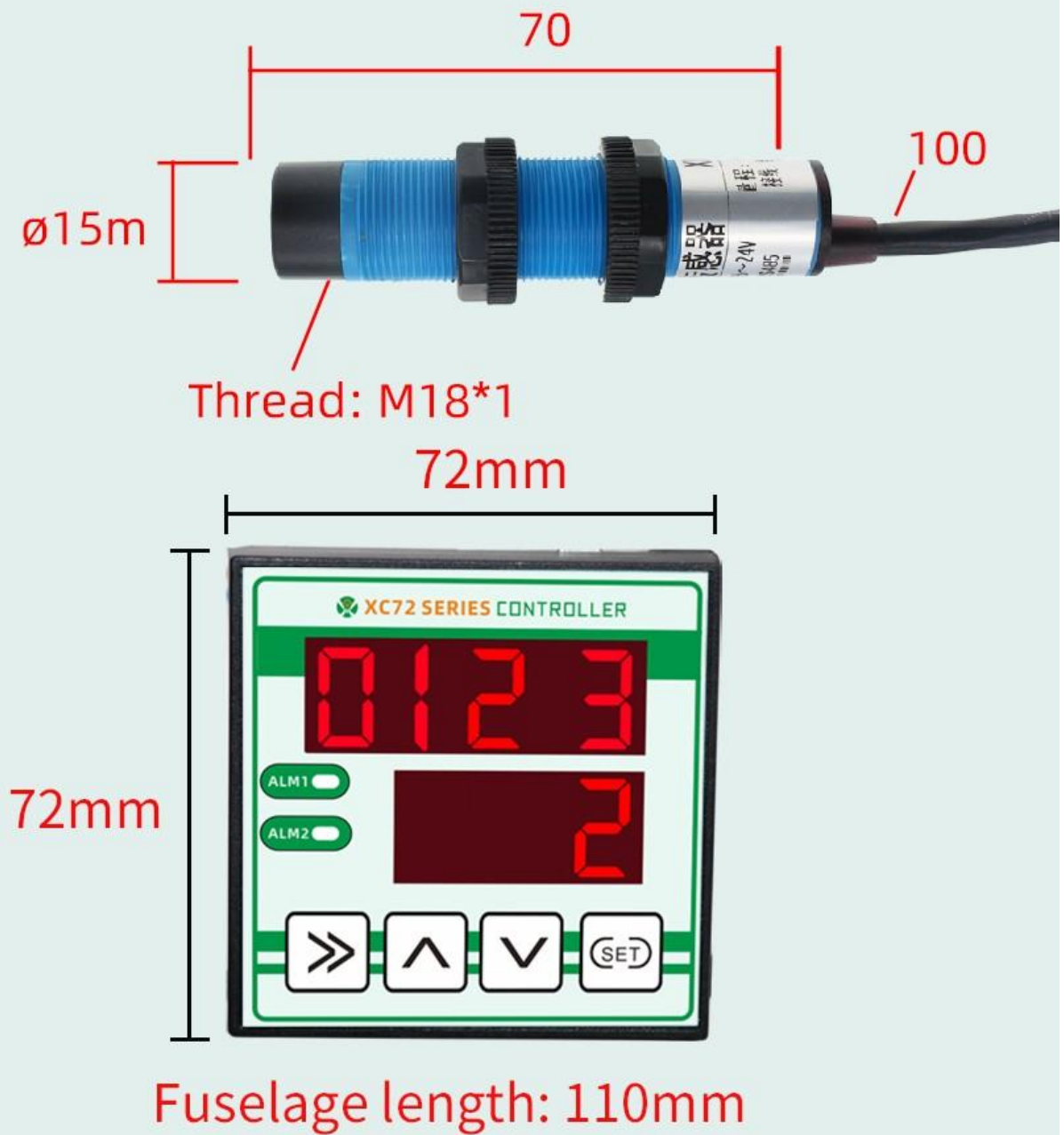
Technical Parameters

Technical parameter	Parameter value
Brand	XUNCHIP
CO2 range	0~2000ppm
CO2 accuracy	±50ppm
Power	AC185~265V 1A
Control mode	Relay
carrying capacity	10A 220VAC

Product Selection

Product DesignRS485,Multiple output methods, the products are divided into the following models depending on the output method.

Product model	output method
XC7294B	RS485 总线

Product Size

70

ø15m

100

Thread: M18*1

72mm

XC72 SERIES CONTROLLER

0123

2

ALM1

ALM2

≫ ∧ ∨ SET

72mm

Fuselage length: 110mm

※ Manual measurement, please refer to the actual product

software to test

Detailed explanation of the buttons to get started quickly

Standard MODBUS-RTU protocol, default baud rate of 9600, invalid check, 8 bits of data

» : Use the position selection key when setting

∧ : Raise the key

∨ : Downward adjustment

SET : Set the key

The fourth page is for the mode settings
Mode 1: Over-Upper or Lower Limit Relays 1,2 Pick up at the same time, and release at the same time normally
Mode 2: Upper or lower limit relay 1,2 Release at the same time, normal simultaneous engagement
Mode 3: Relay 1 engages over the upper or lower limit Relay 2 is released Normally, relay 1 is released Relay 2 engaged

*The upper temperature is displayed, and the lower is the humidity display

Key-to-key operation

◆ Press and hold SET for two seconds and release it to enter the setting state
Press "" to select a seat, and press "∧" and "∨" to adjust the value

The data and parameters displayed in the lower row correspond to the following parameters:
01 Upper limit threshold
The minimum value is 0, and the maximum value is 9999

02 Lower threshold
The minimum value is 0, the maximum value is 9999, and 0 does not participate in the control

03 Return   The minimum value is 0, and the maximum value is 2000

04 Control mode   The minimum value is 1, and the maximum value is 3
Mode 1, below the lower threshold operation
Mode 2: Actions above the upper limit threshold
Mode 3: Above the upper limit threshold and below the lower limit

05 Control the delay
The minimum value is 0, and the maximum value is 3600 when the control state occurs,Delay a period of time to confirm whether the police situation exists, and if it persists, it will be executed Relay control

In the case of broken wires, wire the wires as shown in the figure. If the product itself has no leads, the core color is for reference.

How to use software?

Detailed explanation of the buttons to get started quickly

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How to use?

CO2 sensors can be widely used in agricultural farms, gas pipelines, mining, gas stations, chemical plants, workshops and other environments

Gas pipelines

Chemical
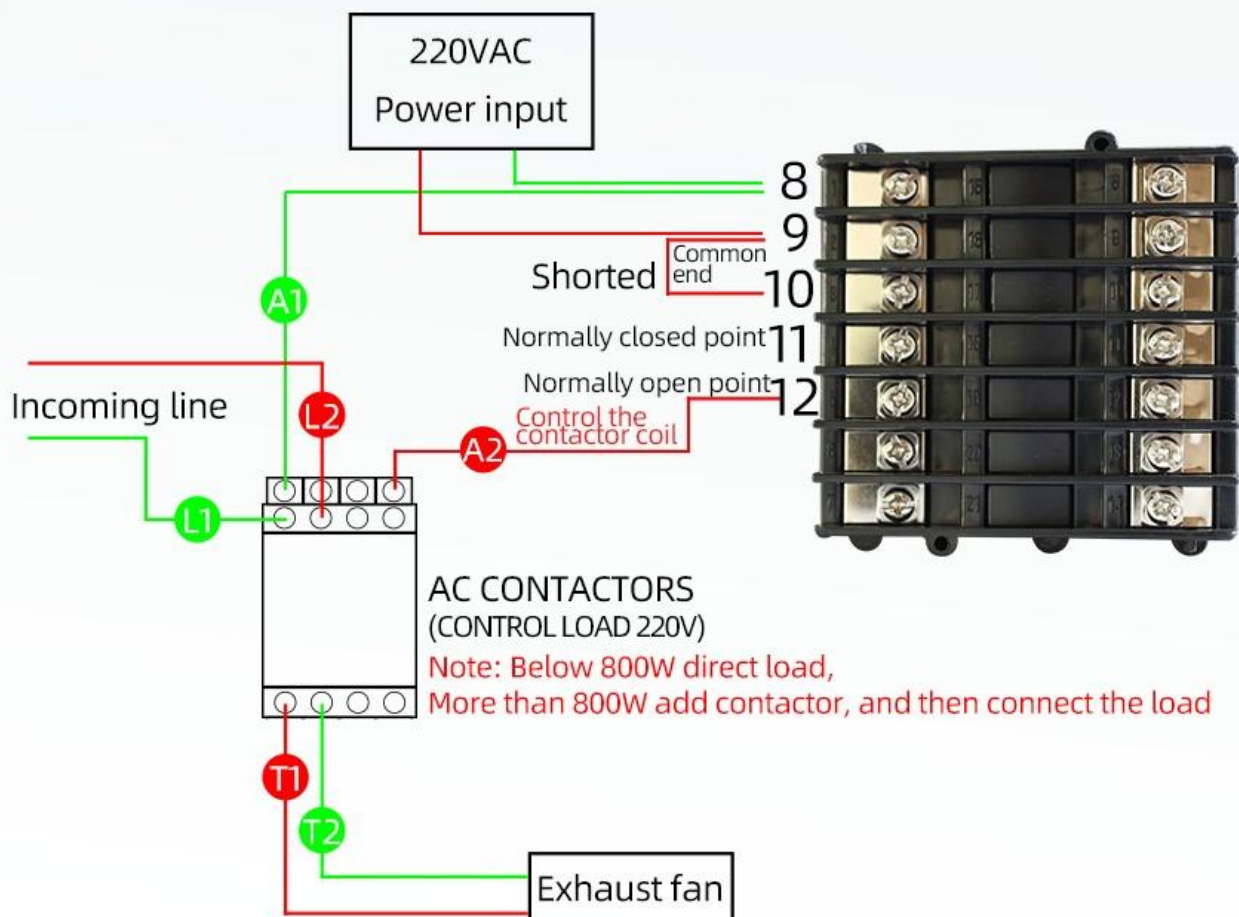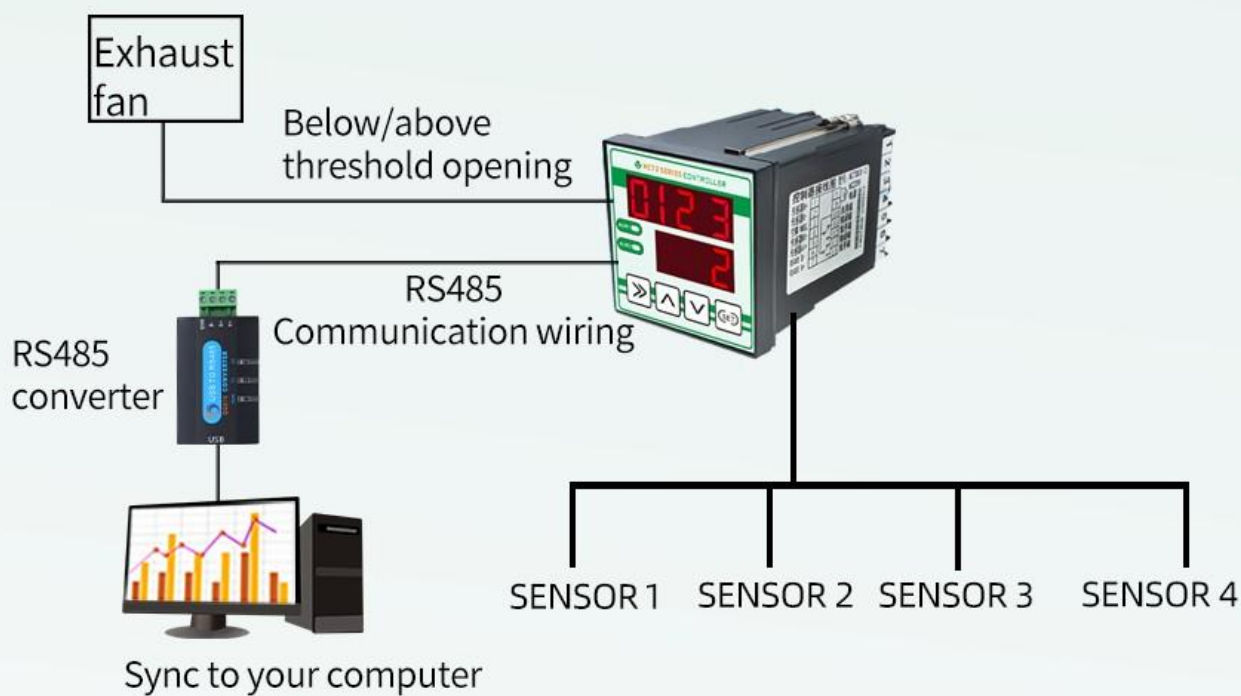
Gas station

Factory workshop

Agricultural farms

Mining industry

Application solution

Exhaust fan

Below/above threshold opening

RS485 Communication wiring

RS485 converter

Sync to your computer

SENSOR 1   SENSOR 2   SENSOR 3   SENSOR 4

220VAC Power input

8
9
Shorted Common end 10
Normally closed point 11
Normally open point 12
Control the contactor coil

A1
L2
A2

Incoming line

L1

T1
T2

AC CONTACTORS
(CONTROL LOAD 220V)
Note: Below 800W direct load,
More than 800W add contactor, and then connect the load

Exhaust fan

Control mode and process

Mode 1: Delay action above the upper or lower threshold (suction)

Normally: Relay 1,2 is released When it is operated, relay 1,2 is engaged
Delayed action above the upper or lower threshold
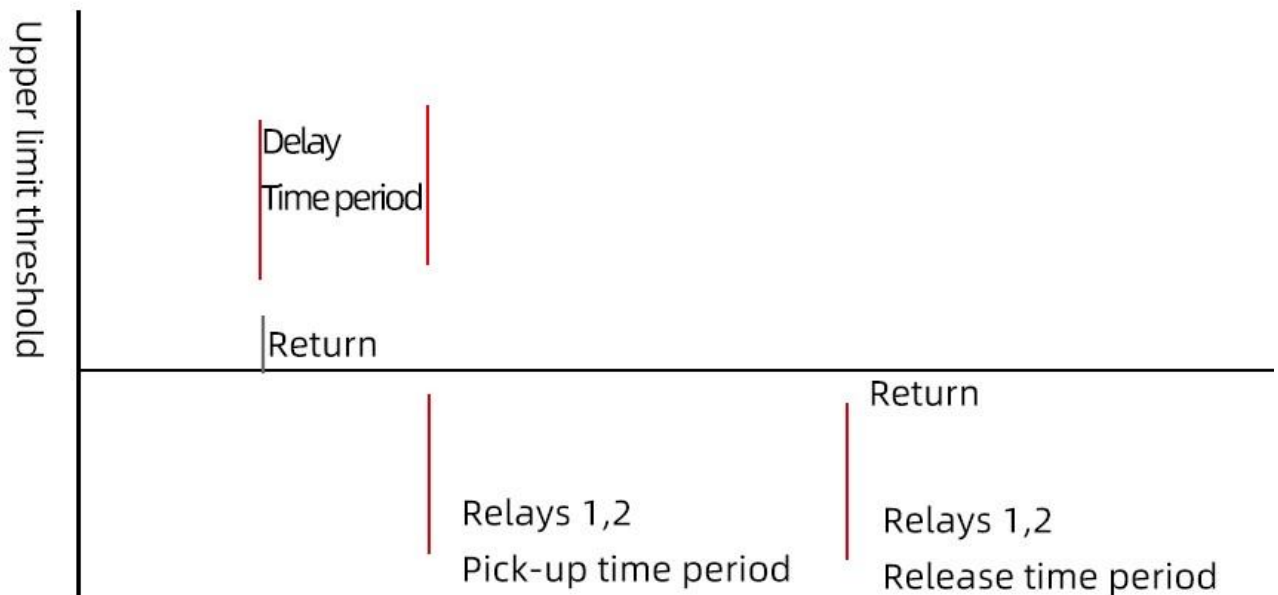
Control the process of turning the device on and off

Relay 1 engagement action conditions: when the measured value > the upper limit threshold value and the delay value is reduced to 0
Relay 1 release operating conditions: measured value< upper limit threshold-return difference value

*As shown in the figure above, if the measured value is higher than the upper limit threshold and the difference is added, if a delay is set, etc
When the delay value drops to 0, the internal relay 1,2 of the controller is engaged, and the equipment is turned on; When the measured value
When it drops to the upper limit threshold and subtracts back to the difference, relay 1,2 is released and the equipment is turned off.

Mode 2: Delay action above the upper or lower threshold (off)

Normal: Relay 1,2 engages When acting, relay 1,2 is disconnected
Delay disconnection above the upper or lower threshold

This mode relay behaves in the opposite direction to mode 1
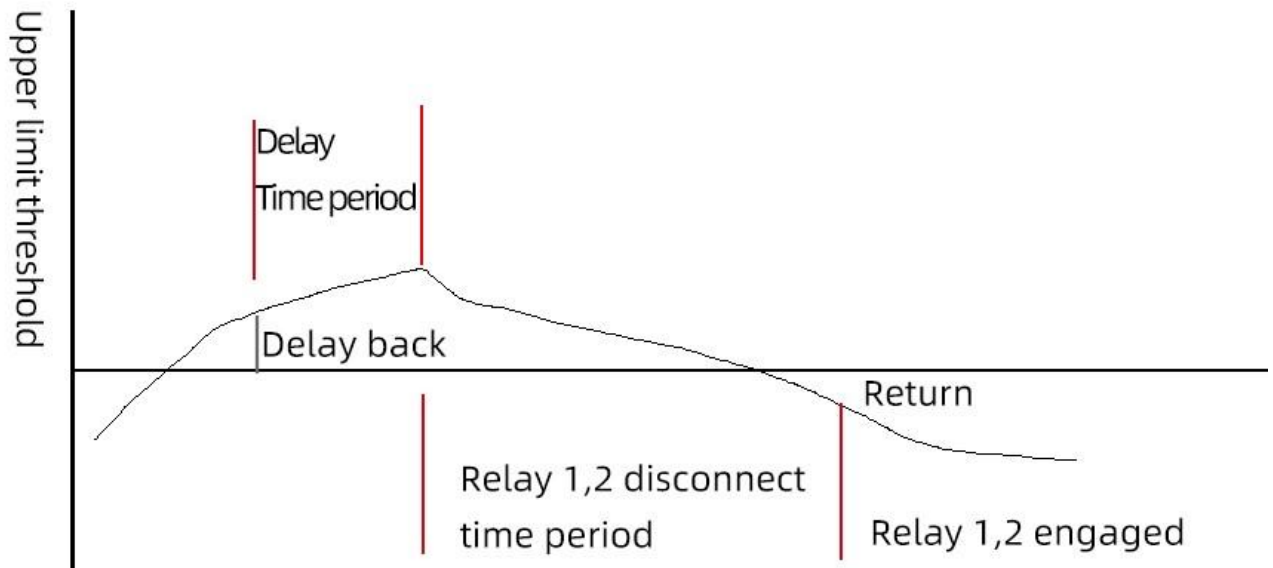
Control the process of turning the device on and off

Relay 1,2 release operating conditions: when the measured value > the upper limit threshold value and the delay value is reduced to 0
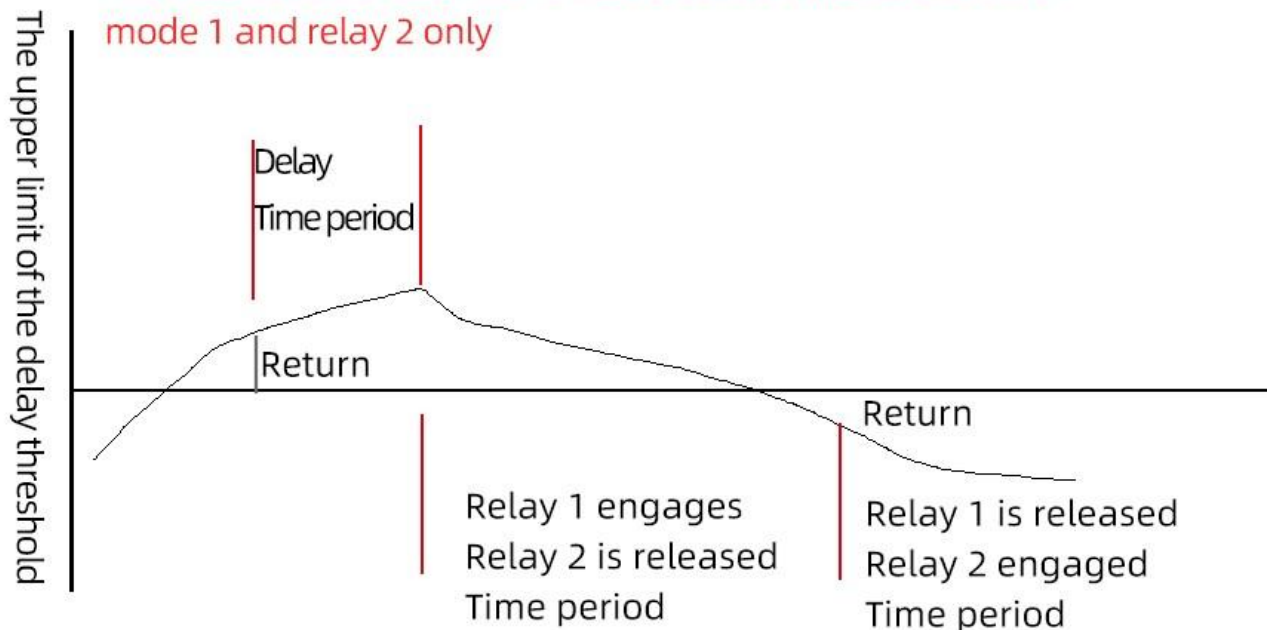Relay 1 engagement action conditions: measured value< upper limit threshold-return difference value

*As shown in the figure above, if the measured value is higher than the upper limit threshold and the difference is added, if a delay is set, etc
When the delay value drops to 0, the internal relay of the controller is released, and the device is turned off; When the measured value drops
When the upper limit threshold is reduced back to the difference, the relay engages and the equipment is turned on.

Mode 3: Reverse action with a delay above the upper or lower threshold

Normal: relay 1 releases, 2 picks up When acting, relay 1 picks up and 2 releases

Above the upper limit threshold or below the lower limit threshold, the two-way

The action of the relay in this mode is the opposite of that of mode 1 and relay 2 only

Control the process of turning the device on and off

Relay 1 engaged, 2 released Working conditions: When the measured value > the upper limit threshold value and the delay value is reduced to 0
Relay 1 release, 2 pick-up Operating conditions: Measured value< upper limit threshold-return difference value

*As shown in the figure above, if the measured value is higher than the upper limit threshold and the difference is added, if a delay is set, etc
When the delay value drops to 0, the internal relay of the controller is released, and the device is turned off; When the measured value drops
When the upper limit threshold is reduced back to the difference, the relay engages and the equipment is turned on.

Product List

2-way/4-channel status inspection controller (including power supply)

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