



Specification

Model			CM-004N-220	CM-004N-110	CM-004N-024
Power Supply			220VAC ±15% 50/60 Hz	110VAC ±15% 50/60 Hz	12-30VAC/ VDC
Power Consumption			3VA		
Display			7-Segment, Size 0.56 Inch, 4 Digit		
			1 LED (Show Alarm Relay)		
Input	Voltage	Range	0-10VDC		
		Accuracy	± 0.5% of Full Scale		
		Impedance	10 kΩ		
	Current	Range	0-20mA		
			4-20mA		
		Accuracy	± 0.5% of Full Scale		
		Impedance	120 Ω		
	Response Time		62.5 mSec		
	DC Source for Sensor		18VDC (No Load)		12VDC (30mA)
Output			1 Alarm 5A/250VAC		
Ambient Operation	Temperature		-10°C to 60°C		
	Humidity		85% RH Non-Condensing		
Ambient Storage	Temperature		-20°C to 80°C		
	Humidity		85% RH Non-Condensing		
Protection Degree	Front Protection Rating		IP52		
	Case Protection Rating		IP30		
Installation			Panel, Mounting		
Material			ABS-V0		
Size (mm.)			48 x 96 x 80		
Weight (kg.)			225		

Description

- Digital Indicator : CM-004N Series is a digital process indicator.
- Can receive 0-10VDC, 0-20mA, 4-20mA in one device.
- 1 Alarm Relay Output with 4 Selectable Functions.
- Display range: -1999 to 9999.
- Decimal point selectable up to 3 positions.
- Suitable for control cabinets to display motor speed from inverter, DC drive, etc.
- Built-in DC source 12 VDC to supply transducer.
- 7-segment, 4-digit display, size 0.56 inches.
- Scale display adjustable from keypad by setting High Limit and Low Limit range.
- Lock function to prevent unauthorized setting adjustments.

Operation

The CM-004N is a digital process indicator. It receives standard analog signal inputs of 0-10 VDC, 0-20 mA, or 4-20 mA from a transmitter or converter, and displays the process value. The input range can be set using the keypad on the screen.

For example, the CM-004N Series connect to a pressure transmitter 0-100 bar with a 4-20 mA input by setting the Low Limit = 0 and the High Limit = 100, the device will display the system's pressure value on the screen.

The device includes a built-in 12 VDC source to supply a transducer, eliminating the need for an external switching power supply.

1 Alarm Relay Output with 4 selectable functions.

Absolute High/Low Band Alarm: when the measured temperature falls below the low setpoint or rises above the setpoint high, the relay output will be ON.

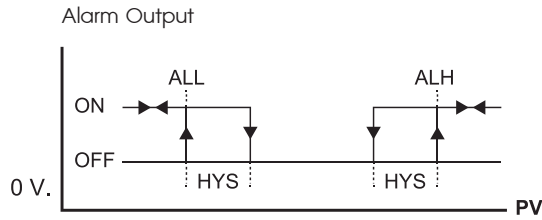
Absolute High Alarm: if the temperature exceeds the high setpoint, the relay output will turn ON.

Absolute Low Alarm: when the temperature falls below the setpoint low, the relay output will operate.

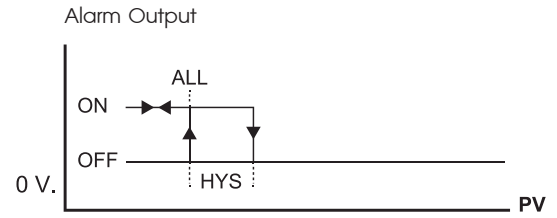
Absolute High/Low Range Alarm: when the temperature is higher than the setpoint low and lower than the high setpoint, the relay output will operate.

ALARM FUNCTION

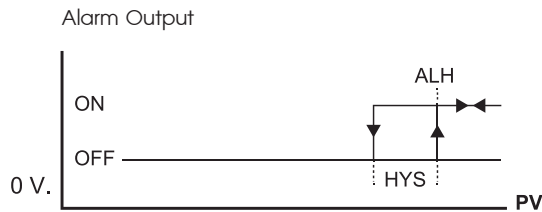
1. Absolute value High Low Band Alarm



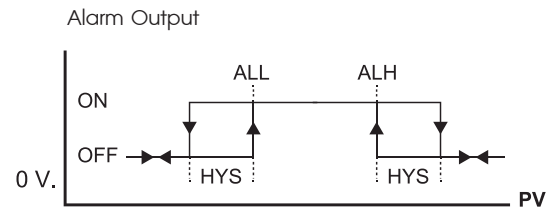
3. Absolute value Low Alarm



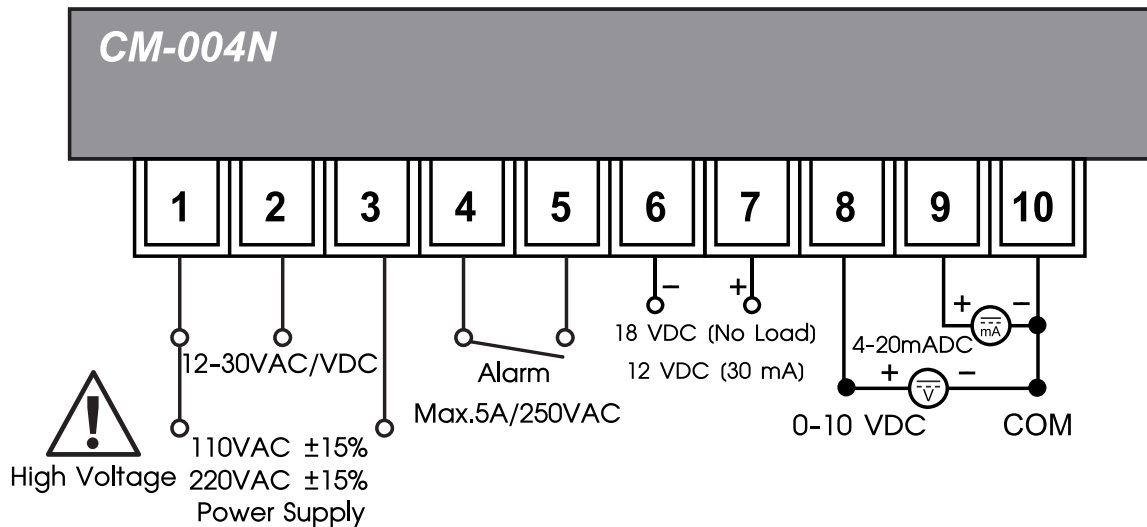
2. Absolute value High Alarm



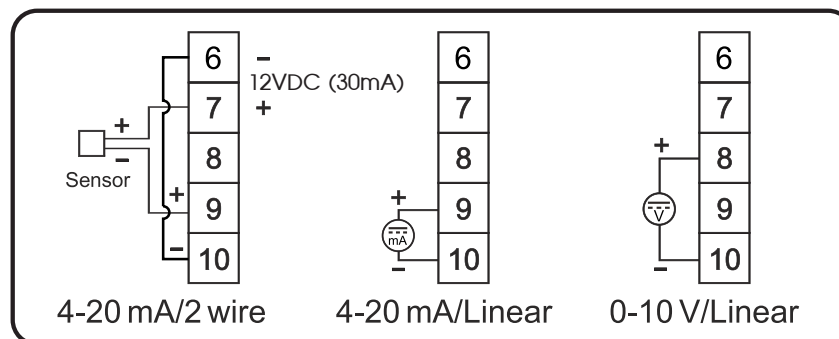
4. Absolute value High Low Range Alarm



Wiring Diagram

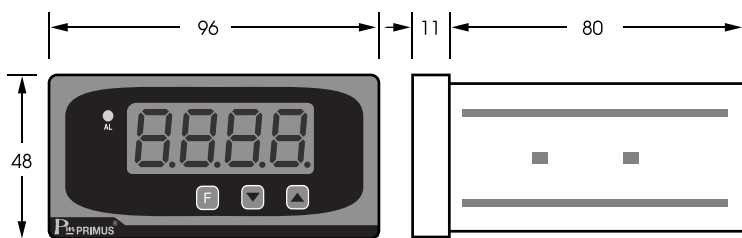


Input Wiring Examples

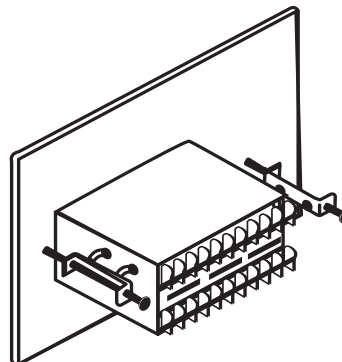


- Make sure the correct wiring connection before turning on electricity. Mis-wiring may cause malfunction of the unit and fire.
- Never modify the unit to prevent damage or incident such as malfunction and fire etc.

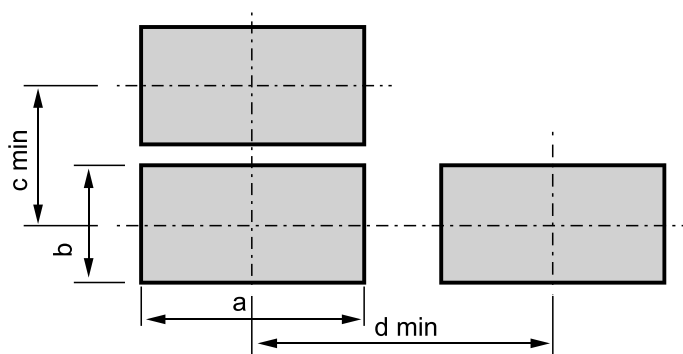
Dimension



Installation



Channel cutting size

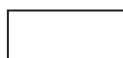


Model	a	b	c	d
CM-004N	92	45	60	120

Unit: $\pm 0,6$ mm.

Ordering Code

CM-004N-



Code	Power Supply
024	12-30VAC/VDC
110	110VAC $\pm 15\%$
220	220VAC $\pm 15\%$