



CM-003N (Standard Size)



DCM-003N (Mini Size)

Description

- Digital Volt Meter (True RMS) / Mini Digital Volt Meter (True RMS)
: CM-003N / DCM-003N is a meter for measuring and displaying alternating current (AC) voltage with TRUE RMS at 50/60 Hz, and direct current (DC) voltage.
- Measuring ranges: 5-500 VAC, 15-999.9 VAC, 0-50 VDC, 0-500 VDC
- Display: 4-digit 7-segment display, 0.56 inch (for CM-003N) and 0.39 inch (for DCM-003N).
- Alarm: 1 alarm relay output with 4 selectable alarm functions
 - Absolute value high low band alarm
 - Absolute value high alarm
 - Absolute value low alarm
 - Absolute value high low range alarm
- PT ratio: Adjustable from 1.0-400.0, with LED indication for kV units
- Available sizes: CM-003N (48 × 96 mm.) and DCM-003N (35.25 × 79.6 mm.)

Application

- Installed in control panels
- For displaying voltage values
- Food industry plants
- Chemical industry plants, etc.

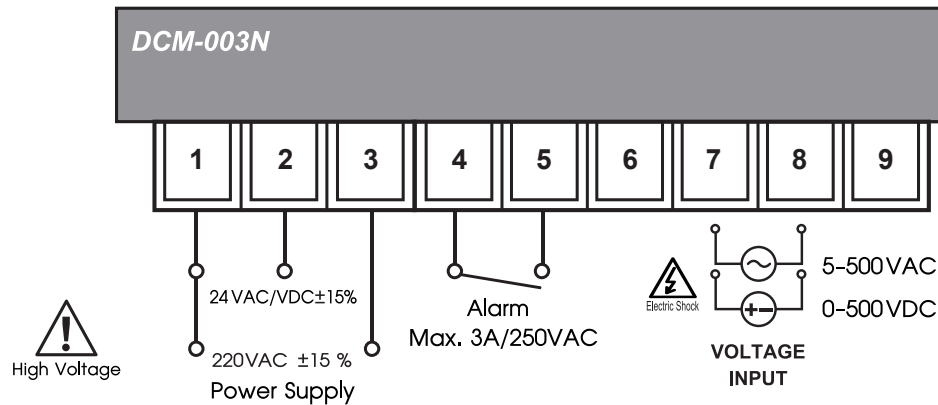
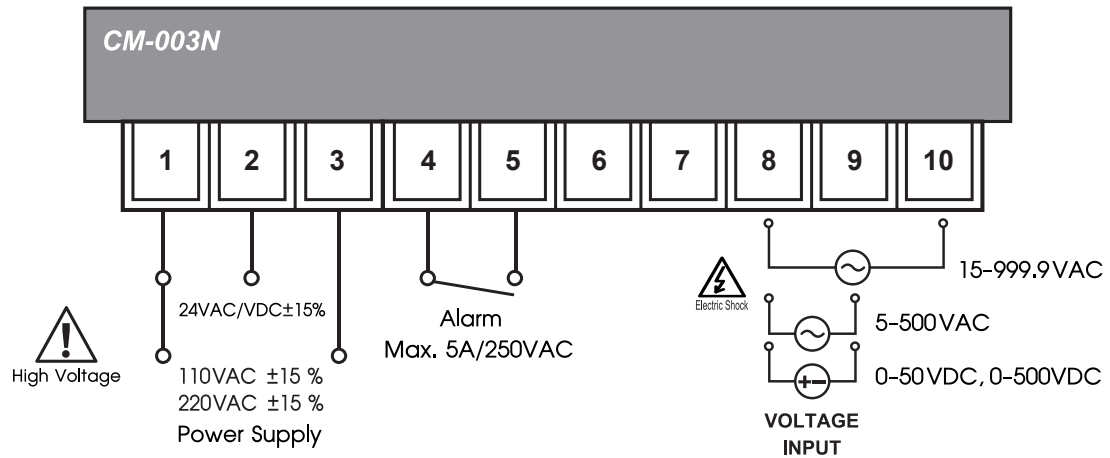
Operation

CM-003N/DCM-003N is a meter for measuring and displaying alternating current (AC) voltage with TRUE RMS, with measuring ranges of 5-500 VAC and 15-999.9 VAC, and an adjustable PT ratio from 1-400. For the direct current (DC) voltage model, the measuring ranges are 0-50 VDC and 0-500 VDC with direct input. It has 1 alarm relay output with 4 configurable functions for load switching as required.

Specification

Model.		CM-003N		DCM-003N
Power Supply		220VAC ±15% 50/60Hz		
		110VAC ±15% 50/60Hz		-
		24VAC/VDC ±15%		
Power Consumption		3VA		2.5VA
Display		7-Segment, 4 Digit		
		Size 0.56 Inch		Size 0.39 Inch
Input	AC	15-999.9VAC 50Hz	5-500VAC 50Hz	5-500VAC 50Hz
	Accuracy (AC)	±1% of Full Scale	±0.5% of Full Scale	±0.5% of Full Scale
	DC	0-50VDC	0-500VDC	0-500VDC
	Accuracy (DC)	±0.5% of Full Scale	±0.5% of Full Scale	±0.5% of Full Scale
	PT Ratio	1-400		
	Input Impedance	2 MΩ		
Output		1 Alarm 5A/250VAC		1 Alarm 3A/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		35.25 x 79.6 x 69.6
Weight (kg.)		225		150

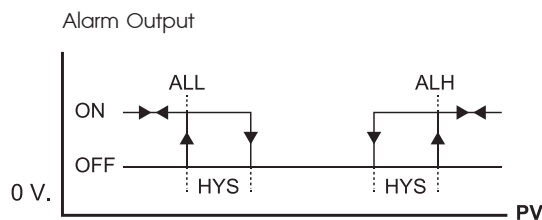
Wiring Diagram



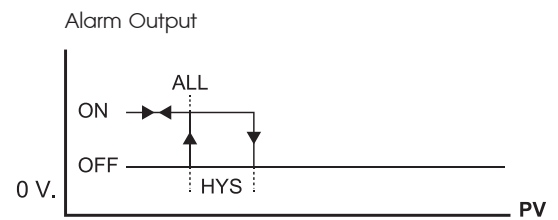
- Make sure the correct wiring connection before turning on electricity. Mis-wiring may cause malfunction of the unit and fire.
- Never modify the unit to prevent damage or incident such as malfunction and fire etc.

ALARM FUNCTION

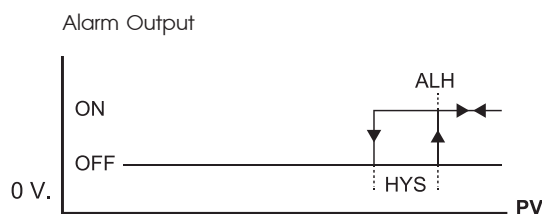
1. Absolute value High Low Band Alarm



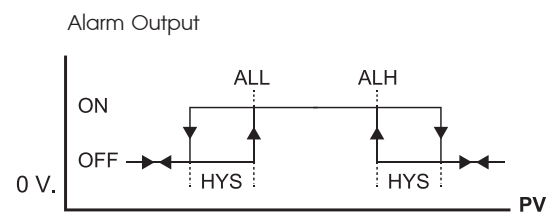
3. Absolute value Low Alarm



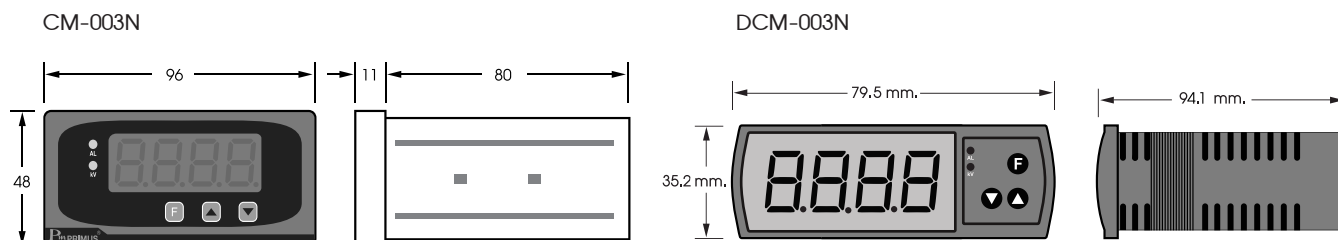
2. Absolute value High Alarm



4. Absolute value High Low Range Alarm



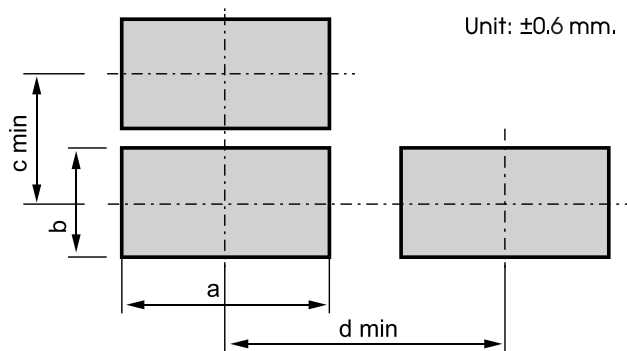
Dimension



Channel Size

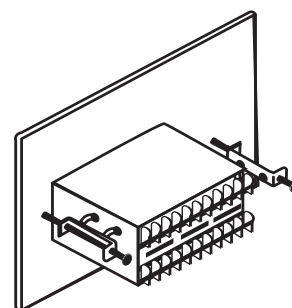
Model	a	b	c	d
CM-003N	92.0	45.5	54.5	113.3
DCM-003N	70.5	29.5	47.8	94.8

Unit: ± 0.6 mm.

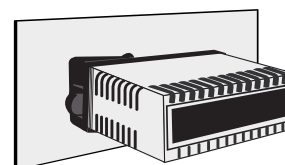


Installation

CM-003N



DCM-003N



Ordering Diagram

