



CM-003N DCM-003N

DIGITAL VOLT METER (TRUE RMS.) MINI DIGITAL VOLT METER (TRUE RMS.)



CM-003N

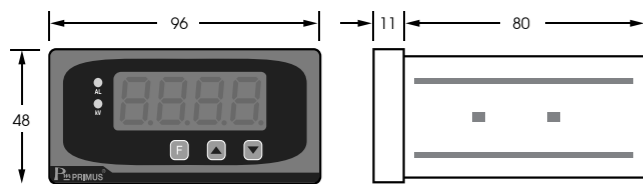


DCM-003N

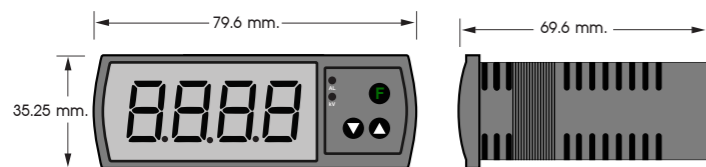
TECHNICAL SPECIFICATION

Model		CM-003N	DCM-003N
Power Supply		220 VAC ±15 % 50/60 Hz	-
		110 VAC ±15 % 50/60 Hz	-
Power Consumption		24 VAC/VDC ±15 %	-
		3 VA	2.5 VA
Display		7-Segment, 4 Digit	
		Size 0.56 Inch	Size 0.39 Inch
Input	AC	15-999.9 VAC 50 Hz	5-500 VAC 50 Hz
	Accuracy(AC)	± 1% of Full Scale	± 0.5% of Full Scale
	DC	0-50 VDC	0-500 VDC
	Accuracy(DC)	± 0.5% of Full Scale	± 0.5% of Full Scale
	PT Ratio	1-400	
Output		1 Alarm 5A/250 VAC	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		48x96x80 mm.	35.25x79.6x69.6 mm.
Weight		225 g.	150 g.

DIMENSION

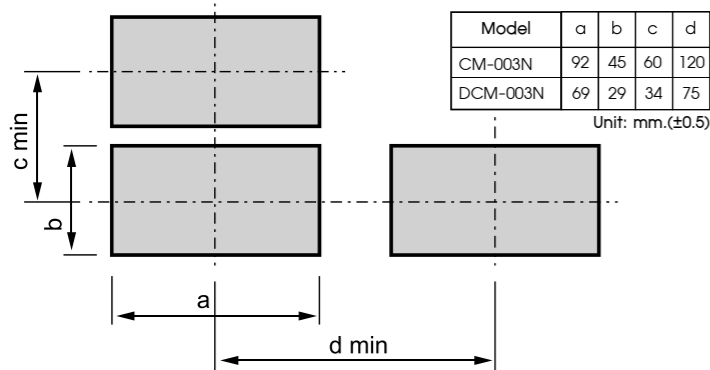


CM-003N

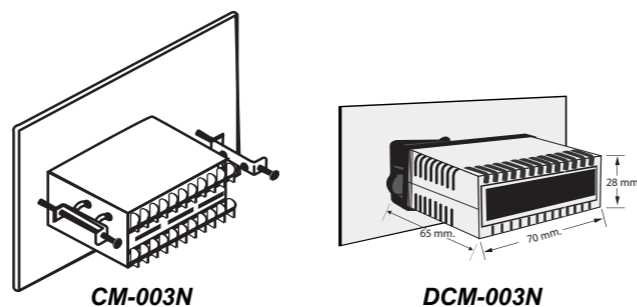


DCM-003N

CUTTING PANEL



INSTALLATION



DESCRIPTION

- Meter measure and show alternate current voltage (AC) in TRUE RMS at frequency 50/60 Hz and direct current voltage(DC).
- Measure range 5 - 500 VAC, 15 - 999.9 VAC, 0 - 50 VDC, 0-500 VDC.
- Display by 7-Segment 4 digits size 0.56 inch (for CM-003N) and size 0.39 inch (for DCM-003N)
- 1 Alarm Relay Output by 4 Alarm Function in setting
 - Absolute Value High Low Band Alarm
 - Absolute Value High Alarm
 - Absolute Value Low Alarm
 - Absolute Value High Low Range Alarm

- Can set PT Ratio since 1.0-400.0 and LED show unit in kV
- There are 2 size CM-003N(48x96 mm.) and DCM-003N (35.25x79.6 mm.)

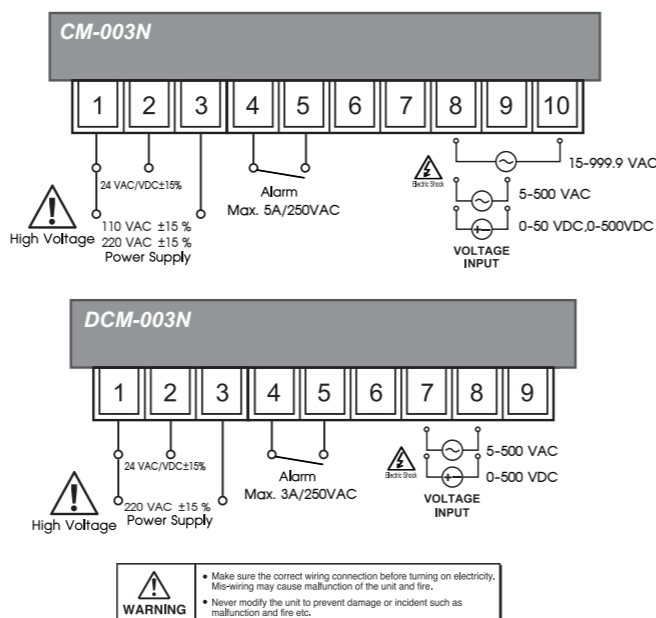
OPERATION

CM-003N/DCM-003N is measure device and display result AC voltage in True RMS by measure range 5-500 VAC, 15-999.9 VAC and can set PT Ratio since 1-400. DC voltage model has measure range 0-50 VDC, 0-500VDC direct connect. There is 1 Alarm Relay Output by 4 function setting for cut or connect load as require.

APPLICATION

- Control cabinet box.
- Display voltage value.
- Food industrial factory.
- Chemical industrial factory.

WIRING DIAGRAM



• Power ON

Flash 4 seconds wait hardware ready to use.

• Display for Model

Model name

• Display for Version

Device will show lasted version

• Operation Mode Display

Show value from measure

Press **F** key more than 2 seconds

1. PT Ratio

Set multiplier 0.1-400.0

2. PV Correction

Offset value from measured value

-3.00 - 3.00

-30.0 - 30.0

-300 - 300

3. Filter Input

Display delay setting.

0-15 Sec.

4. Key Lock Setting

Show function as follow

- 0 No
- 1 All
- 2 Lock mode only
- 3 Except operation mode

5. Function Setting for Alarm

Choose alarm operation

PV Alarm functions

- 1: Absolute value High Low Band Alarm
- 2: Absolute value High Alarm
- 3: Absolute value Low Alarm
- 4: Absolute value High Low Range Alarm

(Additional Alarm functions)

- 0: None
- 1: Stand-by sequence

6. High Limit Setting for Alarm

Alarm setting from High side very follow decimal that display

0.00 - 99.99 0.0 - 999.9

0 - 9999

7. Low Limit Setting for Alarm

Alarm setting from Low side very follow decimal that display

0.00 - 99.99 0.0 - 999.9

0 - 9999

8. Hysteresis Setting for Alarm

Dif of Alarm setting very follow decimal that display

0.00 - 20.00 0.0 - 200.0

0 - 2000

DECIMAL POINT

Decimal display will very follow Potential Transformer Ratio by

CM-003N-1,-2	DCM-003N-1,-2	CM-003N-3
PTR 0.1 to 1.9 shows 1 decimal point such as 220.0 V	PTR 0.1 to 1.0 shows 1 decimal point such as 220.0 V	PTR 0.1 to 1.0 shows 1 decimal point such as 220.0 V
PTR 2.0 to 19.9 do not show decimal point such as 2200 V	PTR 1.1 to 10.0 do not show decimal point such as 2200 V	PTR 1.1 to 10.0 do not show decimal point such as 2200 V
PTR 20.0 to 199.9 shows 2 decimal point such as 22.00 kV	PTR 10.1 to 100.0 shows 2 decimal point such as 22.00 kV	PTR 10.1 to 100.0 shows 2 decimal point such as 22.00 kV
PTR 200.0 to 400.0 shows 1 decimal point such as 220.0 kV	PTR 100.1 to 400.0 shows 1 decimal point such as 220.0 kV	PTR 100.1 to 400.0 shows 1 decimal point such as 220.0 kV

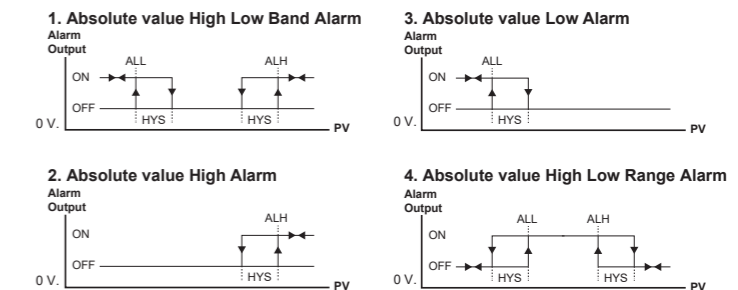
SETTING

Example Setting PT 11kV/110V, Alarm High at 12kV can set as follow

PTR = 100.0 and ALH = 12.00 display will show decimal 2 digit because PTR equal to 100.0

ALARM OUTPUT : Process value (PV) to be used as Alarm Output.

Stand-by Sequence : After starting operation of step, Alarm output does not turn on unless the process value reach the value of OFF position of alarm output



ORDERING CODE

CM-003N - [] - []

INPUT		POWER SUPPLY	
1	AC Input (5-500VAC)	024	24 VAC/VDC ± 15%
2	DC Input (0-500VDC)	110	110 VAC ± 15%
3	AC Input (15-999.9VAC)	220	220 VAC ± 15%
4	DC Input (0-50VDC)		

DCM-003N - [] - []

INPUT		POWER SUPPLY	
1	AC Input (5-500VAC)	024	24 VAC/VDC ± 15%
2	DC Input (0-500VDC)	110	220 VAC ± 15%



DCM-003N-CM-003N

บริษัท ไพรมัส จำกัด
119 ซ.สีม่วงอนุสรณ์ ๓, สุทธิสารวิจิตร แขวงดินแดง เขตดินแดง กรุงเทพฯ 10400
โทร 0-2693-7005, 0-2277-8027 แฟกซ์ 0-2277-3565
E-mail : sales@primusthai.com