



Instrument
Division

New
CAPSENSE
Technology

Digital Panel Meter True RMS

1/3-Phase, True RMS V,I,F,W,VA,PF in 72 x 144 sizes



Brief Information:

Highly Adaptable DPMs with NEW CAPSENSE Technology suitable for a wide range of measuring applications. Which eliminate conventional Switches. CT Ratio / PT Ratio are fully on site programmable through advanced "CAPSENSE" technology based front switches.

Aux. Supply is galvanically isolated from measuring circuit. Cover wide measuring range. User can enjoy the freedom to set primary value as well secondary values suitable for their application. (For Voltmeter (KVAC) Primary – up to 7999 kV & for Ammeter Primary – up to 7999A)

Features:

- True RMS Measurement.
- CAPSENSE Technology for front switches
- State of Art Microcontroller Based Design.
- Cover wide measuring range.
- On site Programmable CT/PT ratio.
- 4 digit ultra bright LED Display.
- On site wiring Configuration possible
- Light Weight.

Auxiliary Power Supply:

Universal – 60.....285 V AC / DC.

Application:

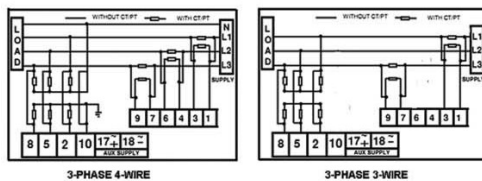
The digital panel meters AE DPM μ M714 have been designed for Industrial applications, Such as electrical Panels required for Generation, Distribution & Commercial application purpose.

Ordering information

- 1) Meter type : V, I, F, W, VAR, VA, PF
- 2) Measuring range
- 3) Electrical systems 1-ph / 3-ph – 2EL-3W / 3-ph-3EL-4W

Note: For AC current measurement at secondary side Above 5A external CT has to be used.

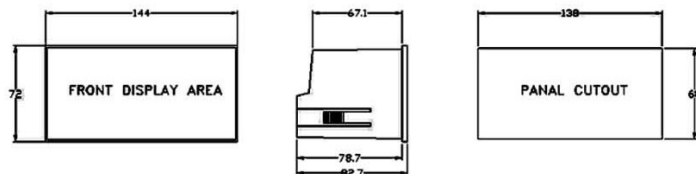
Wiring Diagram:



Specifications

Parameters	Type Voltmeter (VAC), Ammeter (AAC), Frequency(HZ), Active power (W),Reactive Power (VAR), Apparent Power (VA), Power Factor (PF).
Display	4-Digit ultra Bright LED display (1 inch 7 segment LED Display)
Overload indication	"OL" indication on display
Accuracy	$\pm 1\%$ F.S.D. (± 2 Digits) (0.5 optional) For V, I $\pm 0.5\%$ of F.S. for W, VAR, VA $\pm 0.2\%$ of C.F. for frequency $\pm 2^\circ$ for Power Factor
Computation	True RMS
Temperature coefficient	100 ppm/ $^\circ$ C
Frequency	45HZ to 55 HZ
CT/ PT Primary	Programmable through front CAPSENSE switches
CT/PT Secondary	Programmable through front CAPSENSE switches
Range adjustment span	From 1% to 120% of range (Volt Meter) & 2% to 120% of range (Ammeter) 0.1Lag – 1 – 0.1 Lead for power factor Input
Overload	120% of nominal value.
Wiring Configuration	Selectable: 1-ph / 3-ph – 2EL-3W / 3-ph-3EL-4W
Auxiliary supply	Universal AC/DC (60...285)
Input range	0-600V (1% - 120%) For VAC 1 / 5 Amp: (2% - 120%) For AAC 110V/240V/415V/440V voltage and 1A/5A current for W, VAR, VA, F, PF
Input impedance for voltage	0 – 600 / 99kV (1M Ω)
Burden	≤ 2 VA MAX on Aux. supply 2 VA on Voltage input 0.5 VA on Current input
Insulation Resistance	> 20M Ω @ 500 DC.
Dielectric Strength	2KV RMS for one minute.
Operating temperature	0 to +60 $^\circ$ C
Storage temperature	-20 to +70 $^\circ$ C
Humidity	$\leq 95\%$ RH Non-condensing
Front protection rating	IP52
Case protection rating	IP30
Material	ABS
Mounting	Flush Mounting with side clamps
Dimension	72 X 144 X 83 mm
Weight	314 gm

Meter dimension & Installation cut out



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