



Single Phase Digital Panel Meter

Instrument
Division

True RMS Ammeter, Voltmeter & Frequency
96 x 96 mm size

Brief Information:

"Highly Adaptable DPMs with low panel depth most suitable for Panel industries to reduce inside panel space. Aux. Supply is galvanically isolated from measuring circuit. Cover wide measuring range. CT Ratio / PT Ratio are fully on site programmable through front two switches provided on Front side. 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).

Auxiliary Power Supply:

Universal – 85...285 V AC / DC.

Features:

Low back panel depth
True RMS measurement.
State of Art Microcontroller Based Design.
Onsite Programmable CT/PT ratio.
4 digit ultra bright LED Display.
Auto Decimal scrolling

Application:

The digital panel meters type μ M 99 have been designed for Industrial applications, i.e. electrical Panels required for Generation, Distribution & Commercial purpose.

Ordering information

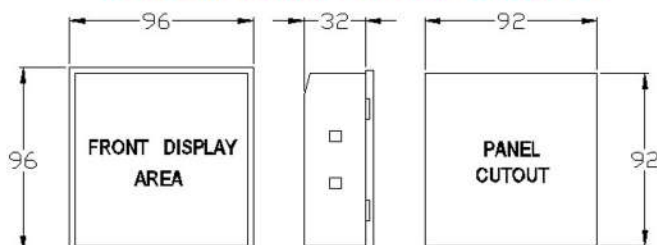
1) Meter type: Ammeter / Voltmeter / Frequency.

Specifications:

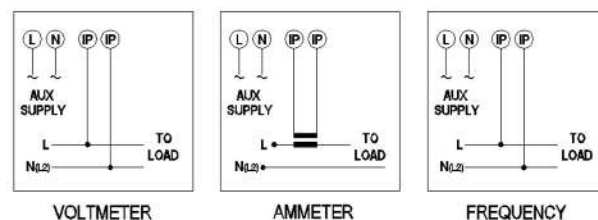
Parameters	Measurand	
	Voltage / Current / Frequency	
Display	4-Digit ultra Bright LED display (RED, 0.5"- 7 segment LED Display)	
Overload indication	"OL" indication on display.	
Accuracy class	0.5%, 1.0% of F.S. Indication (± 2 Digits)	
Computation	True RMS	
Temperature coefficient	100 ppm/ $^{\circ}$ C	
Frequency	45HZ to 55 HZ	
CT/PT Primary	Programmable Through Front Switches	
CT/PT Secondary	Selectable Through Front Switches	
Range adjustment span	From 1% to 100% of range.	
Input range	Voltage	Current
	0-600V (1% to 120%) (Optional 150%)	1/5Amp; (2% to 120%) (Optional 150%)
Overload	120% of nominal value	
Auxiliary supply	Universal (85...285) AC/DC	
Input impedance for voltage	1M Ω	
Burden	≤ 2 VA Max on Aux. supply	
Insulation Resistance	> 20 M Ω @ 500 DC.	
Dielectric Strength	2 KV 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	96 X 96 mm	
Back panel depth	32 mm	
Cut out	92 X 92 mm (-0.1)	
Weight	156gm.	
Compliance	IS 13875 -1993 (Part 1 & 2).	



Meter Dimensions & Installation cut out



Connection Diagram





Three Phase Digital Panel Meter

Instrument
Division

True RMS Ammeter, Voltmeter
96 x 96 mm size

Brief Information:

"Highly Adaptable DPMs with low panel depth most suitable for Panel industries where inside panel space is very important. Aux. Supply is galvanically isolated from measuring circuit. Cover wide measuring range. CT Ratio / PT Ratio are fully on site programmable through front two switches provided on Front side. 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).

Auxiliary Power Supply:

Universal – 85...285 V AC / DC.

Features:

- Low back Panel depth
- True RMS measurement.
- State of Art Microcontroller Based Design.
- Onsite Programmable CT/PT ratio.
- 4 digit ultra bright LED Display.
- Auto Decimal scrolling

Application:

The digital panel meters type μ M 99 have been designed for Industrial applications, i.e. electrical Panels required for Generation, Distribution & Commercial purpose.

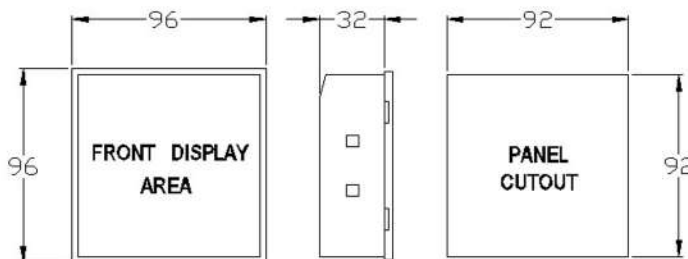
Ordering information

1) Meter type: Ammeter / Voltmeter

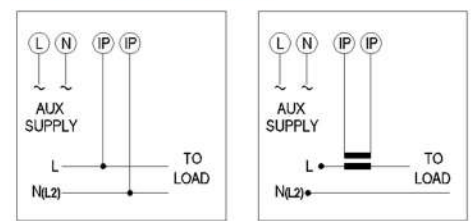
Specifications:

Parameters	Type	
	Voltmeter (VAC)	Ammeter (AAC)
Display	4-Digit ultra Bright LED display (RED, 0.5"- 7 segment LED Display)	
Overload indication	"OL" indication on display.	
Accuracy class	0.5%, 1.0% of F.S. Indication (± 2 Digits)	
Computation	True RMS	
Temperature coefficient	100 ppm/ $^{\circ}$ C	
Frequency	45HZ to 55 HZ	
CT/PT Primary	Programmable Through Front Switches	
CT/PT Secondary	Programmable Through Front Switches	
Range adjustment span	From 1% to 100% of range.	
Input range	Voltage	Current
	0-600V (1% to 120%) (Optional 150%)	1/5 Amp : (2% to 120%) (Optional 150%)
Overload	120% of nominal value	
Auxiliary supply	Universal (85...285) AC/DC	
Input impedance for voltage	1M Ω	
Burden	≤ 2 VA Max on Aux. supply	
Insulation Resistance	> 20 M Ω @ 500 DC .	
Dielectric Strength	2 KV RMS for one minute.	
Operating temperature	-10 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	96 X 96 mm	
Back panel depth	32 mm	
Cut out	92 X 92 mm (-0.1)	
Weight	185gm.	
Compliance	IS 13875 -1993 (Part 1 & 2).	

Meter Dimensions & Installation cut out



Connection Diagram



VOLTMETER

AMMETER

