



Single Phase Digital Panel Meter

(WITH MODBUS)

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 to reduce inside panel space. Aux. Supply is galvanically isolated from measuring circuit and Modbus communication. Cover wide measuring range. CT Ratio I 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 along with Meter Id and Baud rate programming facility.

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.
Onsite Programmable Meter Id & Baud Rate.
RS485 Port for Modbus Communication.
4 digit ultra bright LED Display.
Auto Decimal scrolling

Specifications:

Application:

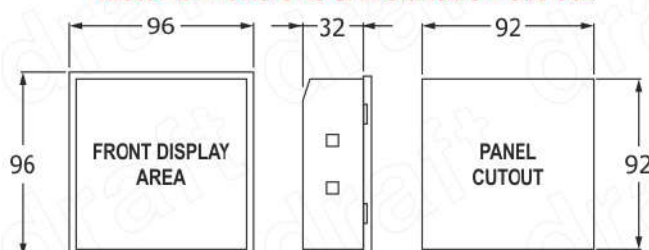
The digital panel meters type μM 99 (with MODBUS) have been designed for Industrial applications, i.e. Electrical Panels required for Generation / Distribution Industrial & Commercial purpose as well as Process control & Automation Panels.

Ordering information

1) Meter type: Ammeter / Voltmeter.

Parameters	Measurand	
Display	Voltage / Current / Frequency 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/°C	
Frequency	45HZ to 55HZ	
CT / PT Primary	Programmable Through Front Switches	
CT / PT Secondary	Selectable Through Front Switches	
Meter ID	Programmable Through Front Switches	
Baud Rate	Selectable Through Front Switches	
Range adjustment span	From 1% to 100% of range.	
Input range	Voltage 0-600 V	Current 1/5 Amp
Overload	120% OR 150% (for Current) & 150% OR 160% (for Voltage) [Any one] of nominal value	
Auxiliary supply	Universal (85...285) AC / DC	
Input impedance for voltage	1MΩ	
Burden	≤ 2 VA Max on Aux. supply	
Insulation Resistance	> 20MΩ @ 500 DC	
Dielectric Strength	2 KV RMS for one minute.	
Operating temperature	0 to +60°C	
Storage temperature	-20 to +70°C	
Humidity	<95% RH Non-condensing	
Front protect on 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).	
Short Time Voltage	2X Rated value for 1 second, repeated 10 times at 10 second interval	
Short Time Current	10X Rated value for 1 second, repeated 5 times at 5 minute interval	

Meter Dimensions & Installation cut out



Connection Diagram

