



Instrument  
Division

New  
CAPSENSE  
Technology

# Digital Panel Meter

True RMS Ammeter & Voltmeter 48 x 96 mm (with RS-485)



### Brief Information:

"Highly Adaptable DPMs with **NEW CAPSENSE Technology** suitable for a wide range of measuring applications". Which eliminate drawback of conventional Switch operational life. Measurable input current/voltage is user programmable. 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:

True RMS measurement.  
CAPSENSE Technology for front switches  
State of Art Microcontroller Based Design.  
Cover wide measuring range.  
Onsite Programmable CT/PT ratio.  
4 digit ultra bright LED Display.  
MODBUS RS485 Communication  
Light Weight.

### Application:

The digital panel meters AE DPM μM49 have been designed for Industrial applications, i.e. electrical Panels required for Generation, Distribution & Commercial application purpose.

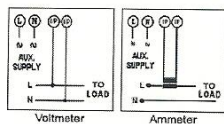
### Ordering information

- 1) Meter type : Ammeter / Voltmeter
- 2) Measuring range
- 3) Display size (0.5")

### Specifications:

Parameters	Type	
	Voltmeter (VAC)	Ammeter (AAC)
Display	4-Digit ultra Bright LED display (0.5" - 7 segment LED Display)	
Overload indication	"OL" indication on display.	
Accuracy class	0.5 of F.S. Indication (±2 Digits)	
Computation	True RMS	
Temperature coefficient	100 ppm/°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 100% of range.	
Input range	Voltage	Current
	0-600V (1% to 120%) (Optional 150%)	1/5 Amp : (2% to 120%)
Overload	120% of nominal value for current; 150% for voltage	
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.	
Communication protocol	MODBUS RS 485 (optional)	
Operating temperature	0 to +60 °C	
Storage temperature	-20 to +70 °C	
Humidity	<95% RH Non-condensing	
Front protection rating	IP52	
Case protection rating	IP30	
Material	ABS	
Mounting	Flush Mounting with side clamps	
Dimension	48 X 96 X 80 mm	
Weight	160 gm.	

Connection Diagram



MECHANICAL SPECIFICATIONS

