

EasyLogic power-monitoring units

EasyLogic series - Digital Panel Meters DM1000/DM3000

Technical data sheet



DM1000 series: 1-Ph V A F panel meters

DM3000 series: 3-Ph V A panel meters

Functions and characteristics



DM3110 - 3 ϕ Ammeter



DM1210 - 1 ϕ voltmeter



DM1310 - 1 ϕ frequency

The universal, user-programmable DM1000 and DM3000 series panel meters for AC circuits are ideal replacements for analogue meters. These five compact, flexible and customizable models will meet all your panel metering requirements.

Applications

- 1-ph & 3-ph AC Volts, Amps and 1-ph Frequency meters
- 3-ph Volts & Current monitoring with built-in selector switch
- Electrical load monitoring
- Gensets, test benches & laboratories
- Capacitor rated current measurement in PFI panels

Meter model	1-ph A	1-ph V	1-ph Hz	3-ph A	3-ph V	Commercial reference	Accuracy
DM1110	■					METSEDM1110	$\pm 0.5\%$
DM1210		■				METSEDM1210	$\pm 0.5\%$
DM1310			■			METSEDM1310	$\pm 0.2\%$
DM3110				■		METSEDM3110	$\pm 0.5\%$
DM3210					■	METSEDM3210	$\pm 0.5\%$

Smart features

- Intuitive dual function key
- Used for 50/60Hz network frequency
- Bright LED indicators - kilo & phase indications for measured value
- Universal operating ranges for any CT/PT ratio/ranges
- Wide range of auxiliary supply, AC or DC control power
- Low VA burden
- Accuracy Class 0.5 for Volts & Amps and Class 0.2 for Frequency
- Auto-scaling
- Simple to order & easy to stock

Technical specifications		
Sensing/measurement		True RMS, one second update
Accuracy	DM1000	Voltage and current $\pm 0.5\%$ of full scale reading for Class 0.5 Frequency: $\pm 0.2\%$ of the full scale reading
	DM3000	Voltage and current: $\pm 0.5\%$ of full scale reading for Class 0.5
Auxiliary supply (control power)		AC: 100-230 V $\pm 20\%$; Frequency: 50/60 ± 5 Hz DC: 100-230 V $\pm 20\%$
Input voltage	DM1210	44 to 480 V AC L-L 50/60 $\pm 5\%$ Hz 25 to 277 V AC L-N; 50/60 $\pm 5\%$ Hz
	DM3210	44 to 480 V AC L-L 50/60 $\pm 5\%$ Hz 25 to 277 V AC L-N; 50/60 $\pm 5\%$ Hz
Input current	DM1110	1A/5AAC Nominal, 50mA to 6AAC; 50/60 $\pm 5\%$ Hz
	DM3110	1A/5AAC Nominal, 50mA to 6AAC; 50/60 $\pm 5\%$ Hz
Input frequency	DM1310	20 to 100 Hz (44 to 480 V AC L-L / 25 to 277 V AC L-N)
Burden		Voltage and current input < 0.2 VA per phase AC: Max 3 VA at 230 V AC L-N DC: Max 1 W at 230 V DC
Display and resolution		Four digits, seven segment, 15mm height, LED display, 0.1% resolution
Safety		CAT III - Measurement, Pollution degree 2 Double insulation at user-accessible area
IP Degree of Protection		Front Display - IP 50, Meter Body - IP 30

PB114289



DM3210

PB114300



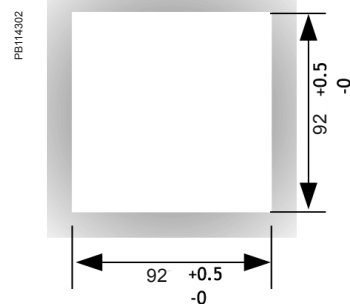
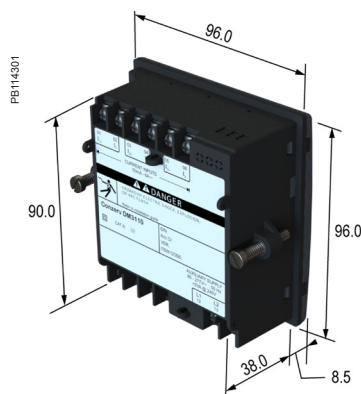
DM1110

Technical specifications (cont'd)

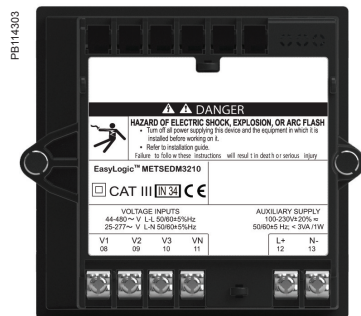
Environmental		Operating temperature: -10°C to 60°C (14 °F to 140°F) Storage temperature: -25% °C to 70°C (-13°F to 158°F) Humidity: 5% to 95% non-condensing
Product weight (approx.)	DM1110	175 gms
	DM1210	160 gms
	DM1310	
	DM3110	220 gms
	DM3210	170 gms
Isolation		4 kV for one minute
Standards and Certifications		Certifications: CE as per IEC 61010-1 Edition-3 Standards: Emission: CISPR 11; Class A Electrostatic discharge: IEC 61000-4-2* Surge: IEC 61000-4-5* Electrical fast transients: IEC 61000-4-4* Radiated susceptibility: IEC 61000-4-6* Power frequency magnetic field: IEC61000-4-8* Immunity to voltage dips and interruptions: IEC61000-4-11* Harmonic current emissions: IEC 61000-3-2* Voltage fluctuations and flicker: IEC 61000-3-3*
Altitude		≤ 2000m

* as per IEC61326

Dimensions (in mm)



Mechanical dimensions and cut out



DM3210 rear view



DM1110 rear view

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