







Meter for all electrical panels



Schneider Electric

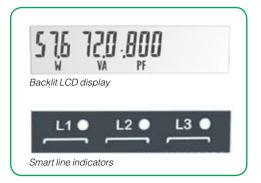
Functions and characteristics



DM6000/ EM1000 series



EM1200



The Conzerv[™] DM6XXX & EM1XXX series meter offers all the basic measurement capabilities required to monitor an electrical installation in 96 x 96 mm units

Characterized by their rugged construction, compact size, and low installation costs, these state-of-the-art meters are ideal for control panels, motor control centers and genset panels The DM6XXX & EM1XXX series are available in four different versions, each one to best fit specific applications

DM6100	VAF, PF meter with 1.0% accuracy	
DM6100	VAF, PF meter with 0.5% accuracy	
DM6300	VAF, PF meter with port & 1.0% accuracy	
DM6300	DM6300 VAF, PF meter with port & 0.5% accuracy	
EM1000	Energy meter with pulse output & 1.0% accuracy	
EM1000	Energy meter with pulse output & 0.5% accuracy	
EM1200	Energy meter with RS485 port & 1.0% accuracy	
EM1200	Energy meter with RS485 port & 0.5% accurcay	

Applications

Energy billing Load balancing and optimization Electrical load monitoring Gensets, test benches, and laboratories

Main characteristics

Fast in line view:

Elegant single row, backlit LCD display Three parameters, name and value at one glance Direct reading of primary values - no multiplication factor Kilo, mega and giga indications with autoscaling capability User selectable default display page and lock

High Resolution

RMS values: Three digit Integrated values: Energy values, nine digit (2 digits after decimal)

Intuitive function keys

Four smart keys for easy navigation, display pages expand vertically, much like the directory or explorer tree displayed on any computer

Auto-scrolling

Allows you to monitor a group of parameters sequentially without any manual key operation.

Secure settings

Unique password protection for the set-up parameters.

Smart line indicators

Helps to check the presence of input voltage (healthy phase)

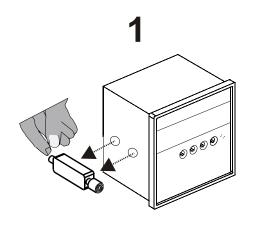
Universal aux supply Wide aux range 44-277V a

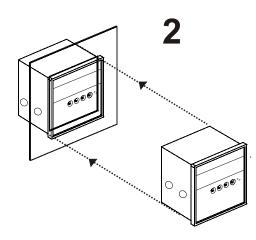
Wide aux range 44-277V ac/dc

Communicaton

Optional RS 485 communication port with Modbus RTU. Can be integrated with various Schneider SCADA softwares (ION[™] Enterprise, Power Logic[™] SCADA, Vijeo[™] Citect and Vista) and also third party SCADA / BMS for Energy & Building management studies

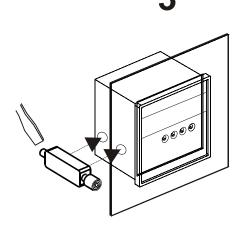
Functions and characteristics





Selection guide					
Selection Guide		DM6100 / DM6300	EM1000 / EM1200		
General					
Use on LV and HV syste	ems	•	•		
Accurancy		Class 1.0/ 0.5	Class 1.0/ 0.5		
Instantaneous RMS va	lues				
Voltage - LL & LN	VLL V12 V23 V31 VLN V1 V2 V3	٠			
Line current	A A1 A2 A3	•			
Frequency	F	•			
Power factor	PF PF1 PF2 PF3	•	•		
Active power (per phase and total)*	W W1 W2 W3		•		
Integrated values		2			
Active energy*	Wh		•		
Run hours	Run.h		•		
On hours	On.h		•		
Interupts count	INTR		•		
Old integrated register	(last cleared)				
Active energy	Wh		•		
Run hours	Run.h		•		
On hours	On.h		•		
Interupts count	INTR		•		
Communication					
Pulse output			• (EM1000)		
RS 485 (Modbus protocol)		• (DM 6300)	• (EM1200)		

*Active or Apparent or Reactive - Power & Energy parameters are user programmable. Only one power related parameter will be displayed at a time in the meter

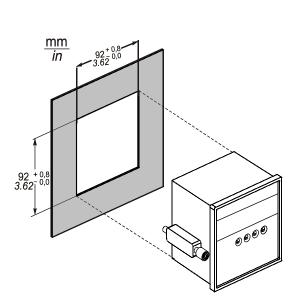


Part Numbers			
VAF meter	Part number		
DM6100 Class 1.0 accuracy	30002567		
DM6100 Class 0.5 accuracy	30002569		
DM6300 Class 1.0 accuracy with RS485	30002566		
DM6300 Class 0.5 accuracy with RS485	30002570		
kWh meter			
EM1000 Class 1.0 accuracy with POP	30002568		
EM1000 Class 0.5 accuracy with POP	30002571		
EM1200 Class 1.0 accuracy with RS 485	30002565		
EM1200 Class 0.5 accuracy with RS 485	30002572		

1. Remove mounting clamps from the digital meter.

- 2. Gently slide the digital meter through the cut-out.
- 3. Put the mounting clamps back in the digital meter
- and tighten the mounting clamp screws.

Functions and characteristics



DM 6XXX/EM 1XXX series meter panel cut-out



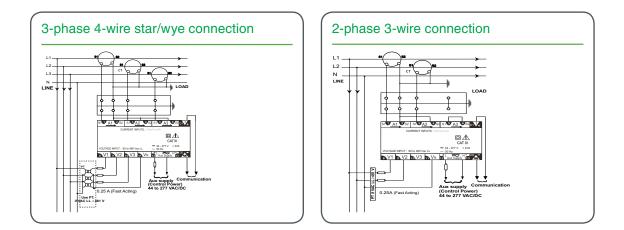
Rear view

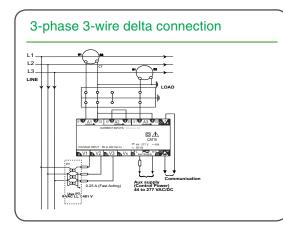
Electrical	character			
Type of measure	ement		True rms	
Measurement accuracy		Voltage	\pm 1% of Full Scale for DM6XXX Cl 1.0 meter \pm 0.5% of Full Scale for DM6XXX Cl 0.5 meter	
		Current	\pm 1% of Full Scale for DM6XXX CI 1.0 meter \pm 0.5% of Full Scale for DM6XXX CI 0.5 meter	
	Power & Energy	Active/ Apparent	±1.0% of Full Scale for EM1XXX Cl 1.0 meter ±0.5% of Full Scale for EM1XXX Cl 0.5 meter	
		Reactive	±2.0% of Full scale for EM1XXX CI 1.0 meter ±1.0% of Full scale for EM1XXX CI 0.5 meter	
Data update rate	Э	·	One second	
Input-voltage Inputs			V1, V2, V3, VN	
characteristics	Measured voltage		80 to 480 VAC LL without PTs Up to 999 kV with external PTs	
	Permisible overload		480VLL with full accuracy, 750VLL max	
	Burden		0.2 VA per phase max	
	Frequency		50Hz <u>+</u> 5%	
Input-current	CT ratings	Primary	1 A to 99.0 kA	
		Secondary	1A/5A	
	Measuremer	nt range	50 mA to 6A (Accuracy applicable from 250mA to 6A)	
	Permissible overload		5A: 6A with accuracy, 10A continuous 1A: 1.2A with accuracy, 10A continuous	
	Impedance		< 0.1 ohm	
	Burden		0.2 VA per phase max	
Auxiliary supply			44 to 277V AC 50Hz <u>+</u> 5% 44 to 277V DC	
(control power)	Burden		4VA max	
Comm.	Pulse output (EM 1000)		24Vdc, Pulse width programmable from 50 to 500ms	
	RS 485		2 terminals, Modubus RTU, Baud rate, selectable from 4800 to 19200	
Mechanica	al charact	eristics		
Weight			0.500 kg (shipping), 0.400 kg (unpacked)	
IP degree of pro-	tection		Front: IP 51; Rear: IP 40	
Dimensions			Bezel: 96 x 96 mm Depth: 80 mm behind bezel Panel cutout: 92 x 92 mm	
Environme	ental char	acteristics		
Operating tempe	erature		-10 to +60 C (14 to 140 F)	
Storage tempera	ature		-25 to +70 C (-13 to 158 F)	
Humidity			5 to 95 % RH non-condensing	
Altitude			2000 m	
Measurement category			III	
Pollution degree			2	
Protection class			2	
Electroma	gnetic co	npatibility		
Electrostatic discharge			As per IEC61000-4-2*	
Fast transient			As per IEC61000-4-4*	
Immunity to surge waves			As per IEC61000-4-5*	
Impulse voltage			As per IEC60060*	
Conducted and radiated emissions			CISPR 11 Class A	
Safety and	standard	ls		

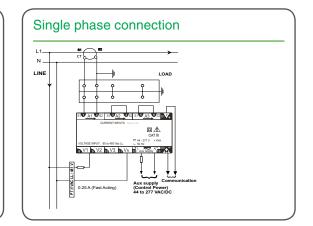
*As per IEC61326-1

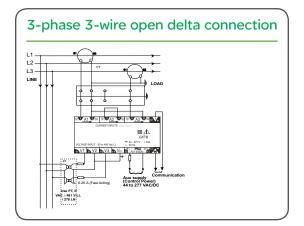
Wiring Diagrams

(for illustration only - refer quick installation for more details)











Make the most of your energySM

Schneider Electric India Pvt. Ltd.

Corporate office 9th Floor, DLF Building No.10, Tower C, DLF Cyber City, Phase II, Gurgaon - 122002, Haryana Tel: 0124 3940400, Fax: 0124 4222036 www.schneider-electric.com Customer Care Centre : Toll-free numbers: 1800 103 0011, 1800 425 4272

General number: 0124 4222040, Email: customercare.in@schneider-electric.com

