







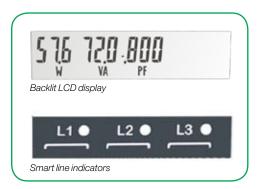




### Functions and characteristics



DM 6XXX / EM 1XXX Series





The Conzerv<sup>™</sup> 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 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	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)

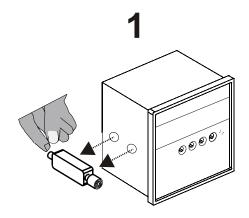
#### Universal aux supply

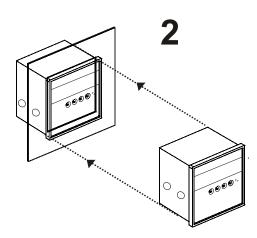
Wide aux range 44-277V ac/dc

#### 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

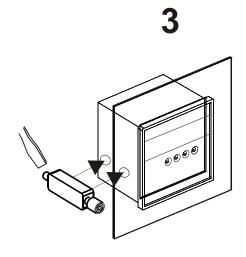
## Functions and characteristics





Selection guide						
Selection Guide		DM6100 / DM6300	EM1000 / EM1200			
General						
Use on LV and HV syst	tems	•	•			
Accurancy		Class 1.0/ 0.5	Class 1.0/ 0.5			
Instantaneous RMS v	alues					
Voltage - LL & LN	VLL V12 V23 V31 VLN V1 V2 V3	•				
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						
Active energy*	Wh		•			
Run hours	Run.h		•			
On hours	On.h		•			
Interupts count	INTR		•			
Old integ values						
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)			

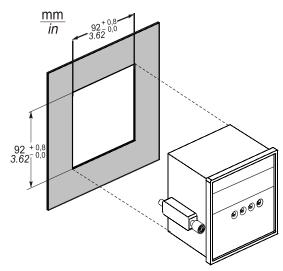
<sup>\*</sup>Apparent / Reactive power & energy parameters are optional



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			

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

## Functions and characteristics

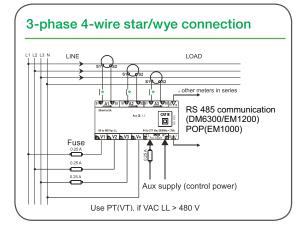


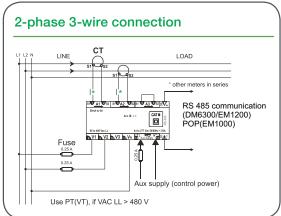
 ${\it DM\,6XXX/EM\,1XXX}\ series\,meter\,panel\,cut-out$ 

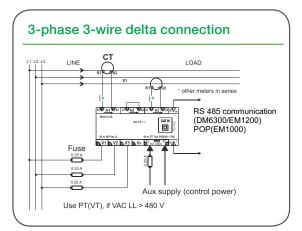
Electrical	characteri	stics		
Type of measure	ement		True rms	
Measurement accuracy *		Voltage	± 1.0% of reading for DM6XXX CI 1.0 meter ± 0.5% of reading for DM6XXX CI 0.5 meter	
		Current	± 1.0% of reading for DM6XXX CI 1.0 meter ± 0.5% of reading for DM6XXX CI 0.5 meter	
		Power factor	+1.0% of reading for DM6XXX & EM1XXX CI 1.0 meter +0.5% of reading for DM6XXX & EM1XXX CI 0.5 meter	
	Power	Active	±1.0% of reading for EM1XXX CI 1.0 meter ±0.5% of reading for EM1XXX CI 0.5 meter	
	Energy	Active	Class 1.0 as per IEC 62052-11 and 62053-21 for EM1XXX Cl 1.0 meter Class 0.5S as per IEC 62052-11 and 62053-22 for EM1XXX Cl 0.5 meter	
Data update rate	Э		One second	
Input-voltage	Inputs		V1, V2, V3, VN	
characteristics			80 to 480 VAC LL without PTs Up to 999 kV with external PTs	
	Permisible ov	verload	480VLL with full accuracy, 750VLL max	
	Burden		0.2 VA per phase max	
	Frequency		45 to 65 Hz	
Input-current	CT ratings	Primary	1 A to 99.0 kA	
		Secondary	1A / 5A	
	Measuremen	t range	50 mA to 6A	
	Permissible of	verload	5A: 6A continuous 1A: 1.2 A continuous	
	Impedance		< 0.1 ohm	
	Burden			
A !!! =	burden		0.2 VA per phase max	
Auxiliary supply (control power)			44 to 277 Vac/dc	
	Burden		3 VA max	
Comm.	Pulse output	(EM 1000)	24Vdc, Pulse width programmable from 50 to 500ms	
	RS 485		2 terminals, Modubus RTU, baudrate up to 19200 bps	
Mechanica	al charact	teristics		
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 temp			-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 c	ategory			
Pollution degree			2	
Protection class			2	
Electroma Electrostatic dis		mpatibility	15 kV Air discharge, 8 kV contact discharge	
Factoriant			IEC 61000-4-2	
Fast transient Immunity to surge waves			4 kV IEC 61000-4-4	
Immunity to surge waves Impulse voltage			4 kV IEC 61000-4-5 6 kV, 1.2/50 µsecond	
			IEC 60060	
Conducted and			CISPR22	
Safety and	ı standar	ds		
Construction			Self extinguishable V0 plastics;	

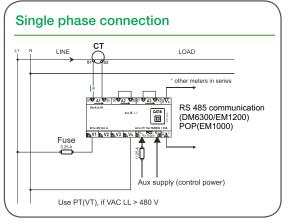
<sup>\*</sup> Refer user manual for more detials on accuracy

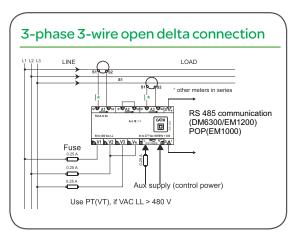
#### **Functions and characteristics**











# Make the most of your energy<sup>sм</sup>

#### Schneider Electric India Pvt Ltd

9th Floor, DLF Building No. 10, Tower C, DLF Cyber City, Phase II Gurgaon - 122 002, Haryana, India Phone: +91 124 3940 400 Fax: +91 124 4222 036 Customer Care Number (toll free): 1800 180 1707 • 1800 103 0011 http://www.schneider-electric.com

