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## PowerLogic power-monitoring units

# DM6000 series digital panel meters

### Technical data sheet

2010





### Functions and characteristics



The PowerLogic DM6000 series digital panel meters offer the basic measurement capabilities required to monitor an electrical installation.

Characterized by their rugged construction, compact size, and low installation costs, these state-of-the-art meters are ideal for control panels, motor control centres and genset panels.

The PowerLogic DM6000 series power meter is available in two different versions to better fit specific applications:

DM6000, basic version;

DM6200, basic version plus an RS485 port for Modbus communication.

#### **Applications**

Power monitoring operations. Equipment monitoring. Preventative maintenance.

#### Main characteristics

#### Easy to read display

The bright, alphanumeric 15mm heigh LED display provides 3 lines for measurement values with 4 digits per line. This display auto-scales for Kilo, Mega and Giga values. Auto scrolling mode allows for easy reading.

#### Analogue load bar

The color-coded analogue load bar indicates the percentage of load through 12 LED segments.

#### Turbo Key access to information

The Turbo Key button lets you access to the most commonly viewed parameters or enter set up mode with a single push of the button.

#### Quick and easy installation

Setup is done through the front panel keys. Quick entry to setup during power up by TURBO key. Direct connection for metering voltage inputs up to 480Vac L-L.

#### Color-coded terminal board labeling

The color-coded label on the terminal board helps ensure accurate wiring.

#### Secure settings

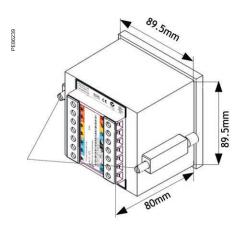
Safeguard access to setup parameters with unique password protection. A keypad lock lets you display a user-selected page by default.

#### Part numbers

Description	Schneider Electric
DM6000 power meter with basic readings; no communications	METSEDM6000
Same as DM6000 plus an RS485 communication port	METSEDM6200

432E2320.indd

# Functions and characteristics (cont.)



PowerLogic DM6000 series digital panel meter dimensions.

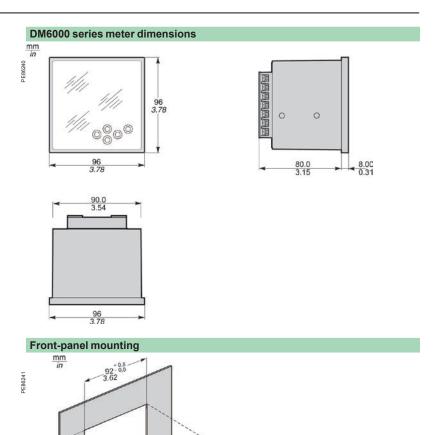
Selection guide		DM6000	DM6200
General			
Use on LV and HV systems		-	-
Current and voltage accuracy		1.0 %	1.0 %
Number of samples per cycle		31	31
Instantaneous rms values	3		
Current	Per phase & Neutral	-	•
Voltage	Average Phase to Neutral & Phase to Phase	•	•
Frequency		-	-
Power factor	Average & per phase	-	-
Unbalance	Current, voltage	-	•
Phase angle	Between V & I, Ph1, Ph2, Ph3	•	•
RPM	For generator only, speed calculated on generator voltage output and number of machine poles.	•	•
Other measurements			
ON hours	Operating time for meter in hours	-	•
INTR	Number of interruptions	-	•
Display			
LED display		-	•
Communication			
RS-485 port		-	1
Modbus protocol		-	•

# Functions and characteristics (cont.)

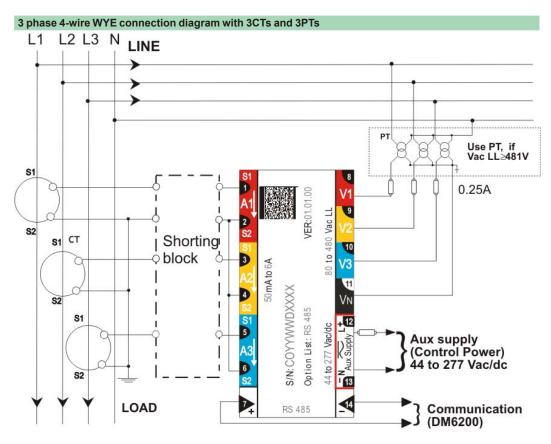
Electrical characteristics				
Type of measurement			True RMS up to the 15th harmonic	
			31 samples per cycle	
Measurement accuracy*	Current and volt	age	1.0 % of reading	
	Frequency		0.1 % of reading	
	Power factor		1.0 % of reading	
* Additional erro	r of 0.05% of full:	scale, for meter i	nput current below 100mA	
Data update rate	е		1 second	
Input-voltage	Inputs		V1, V2, V3, Vn	
characteristics	Measured voltage		80 - 480 V AC L-L without PTs	
	Modelina Voltage		Up to 999 kV with external PTs	
	Permissible overload		1.10 Un (480 V L-L)	
	Burden		0.2 VA per phase max.	
	Impedance		VLL - 4 Mohms, VLN – 2 Mohms	
	Frequency range		45 - 65 Hz	
Input-current characteristics	CT ratings	Primary	1 A - 99.0 kA	
	oago	Secondary	1A-5A	
	Measurement ra		50 mA - 6 A (5 mA is the starting)	
	Permissible overload		10 A continuous	
	Burden		0.2 VA per phase max.	
	Impedance		< 0.1 ohm	
Power supply	AC		44 - 277 V AC at 50 Hz/60 Hz	
Power supply			44 - 277 V DC	
	DC		= = -	
	Ride-through tin	ne	100 ms at 50V	
	Burden		3 VA max.	
Mechanical	characteristic	S		
Weight			0.500 kg (shipping), 0.400 kg (unpacked)	
IP degree of pro	tection		Front: IP 51; Back: IP 40	
Dimensions			Bezel: 96 x 96 mm Depth: 80 mm behind bezel	
			Panel cutout: 92 x 92 mm	
Environmen	tal conditions			
			-10°C to +60°C	
Operating temperature Storage temperature			-25°C to +70°C	
Humidity rating			5 to 95 % RH non-condensing	
Altitude			2000 m	
Measurement CAT			III	
Pollution degree			2	
Protection class			2	
RoHS complian	t		•	
Electromagne	tic compatibility	/		
Electrostatic dis	charge		IEC 61000-4-2	
Immunity to elec	ctromagnetic RF	fields	IEC 61000-4-3	
Immunity to electrical fast transients			IEC 61000-4-4	
Immunity to sur	ge waves		IEC 61000-4-5	
Conducted disturbance immunity			IEC 61000-4-6	
	tory waves immu	nity	IEC 61000-4-12	
Impulse voltage			6kV for 1.2/50 μS per IEC 60060-1	
	radiated emission	ns	CISPR22	
Safety and s				
Safety construction			Self extinguishable V0 plastic; UL 508	
CE certification			IEC61010	
Communica	tion			
RS-485 port			2 terminals only; Baud rate up to 19,200 bps	
Dieplay cha	ractoriotica		Protocols: Modbus RTU	
Display char			View 2 peremeters together as 0 line A 35 %	
Integrated LED display			View 3 parameters together on 3 line, 4 digits per line display. Auto-scaling capability for Kilo,	
			Mega, and Giga values. User-selectable	
			default display page. Password protection for	
			setup parameters.	
Analogue load bar			Color-coded analog indicator provides an option to select the full scale of the load bar	
			based on the sanctioned power limit	

version: 1.0

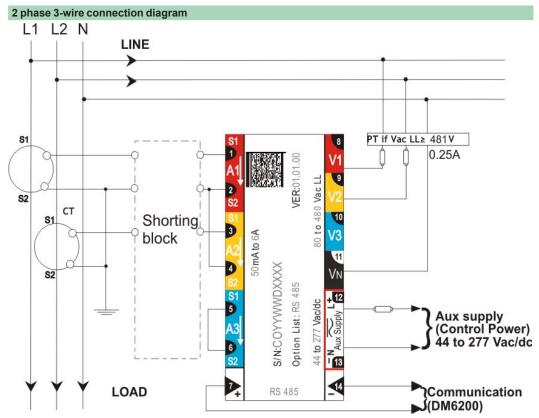
### Installation and connections



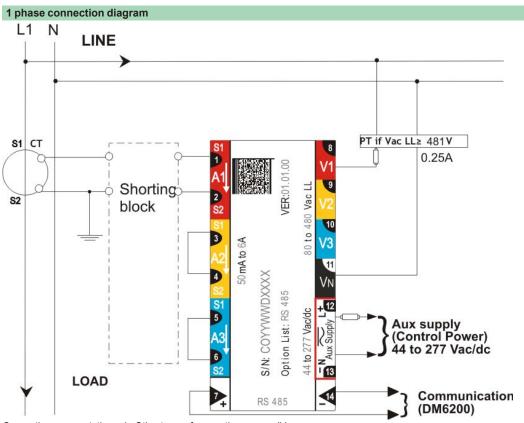
### Installation and connections



Connection representation only. Other types of connection are possible. Refer to the DM6000 series installation guide for details.



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