



- Multifunction Measurements
- Optional RS485 with Modbus RTU
- Optional DI with SOE Log
- 4 Buttons for Fast Operation
- Low Power Consumption
- Optional 100A/40mA SCCT Inputs
- Ideal for Retrofitting
- Bright, 4-digit LED Display
- Optional DO for Control Output
- Optional 0/4-20mA Analog Output
- Standard Tropicalization
- Extended Temperature Range
- Industrial Grade Components
- Extended Warranty





The PMC-D726M Digital Multifunction Meter is CET's latest offer for the low-cost digital power/energy metering market. Housed in an industry standard DIN form factor measuring 72mmx72mmx76.8mm, it is perfectly suited for industrial, commercial and utility metering applications. The PMC-D726M features quality construction, multifunction measurements and a bright, easy to read LED display. Compliance with the IEC 62053-21 Class 1 kWh Accuracy Standard, it is a cost effective replacement for analog instrumentation, capable of displaying 3-phase measurements at once. It optionally provides two Digital Inputs for status monitoring, one Digital Output for control, or a single channel Analog Output for interfacing with 3rd party SCADA system. The standard SOE Log records meter events such as power-off, setup changes, DI and DO operations in 1ms resolution. With the optional RS485 port and Modbus protocol support, the PMC-D726M becomes a vital component of an intelligent, multifunction monitoring solution for any Power and Energy Management systems.

Typical Applications

- Analog meter replacement
- Low voltage applications
- Industrial and commercial panel metering
- Substation, Factory and Building Automation
- Sub-metering and cost allocation
- Ideal for retrofitting with the 100A/40mA SCCT option

Features Summary

Ease of use

- Bright 3-line LED display with high visibility
- Password-protected setup via front panel or free PMC Setup software
- Easy installation with mounting clips, no tools required

Measurements

- VLN, VLL per phase and Average
- Current per phase and Average
- kW, kvar, kVA, PF per phase and Total
- Bi-directional energy measurements
- Frequency

Inputs and Outputs

- Front panel kWh and kvarh LED Pulse Output
- Optional Digital Inputs: dry contact, internally wetted @ 24VDC
- Optional Digital Output: 5A @ 250VAC or 30VDC
- Optional Analog Output: 0-20mA or 4-20mA output

SOE Log

- 16 events time-stamped to ±1ms resolution
- Record all setup and Digital Input status changes

Communications

- Optically isolated RS485 port
- Standard Modbus RTU support at 1200 to 19,200 bps

System Integration

- Supported by our PecStar® iEMS and PMC Setup
- Easy integration into other Automation, SCADA or BMS systems via Modbus RTU

Accuracy

Parameters	Accuracy	Resolution
Voltage	±0.5% reading	0.1V
Current	±0.5% reading + 0.05% F.S.	0.001A
kW, kvar, kVA	±0.5% reading	0.001kX
kWh	IEC 62053-21:2003 Class 1	0.1kWh
kvarh	IEC 62053-23:2003 Class 2	0.1kvarh
P.F.	±1.0% reading	0.001
Frequency	±0.02 Hz	0.01Hz
AO	±1% F.S.	-

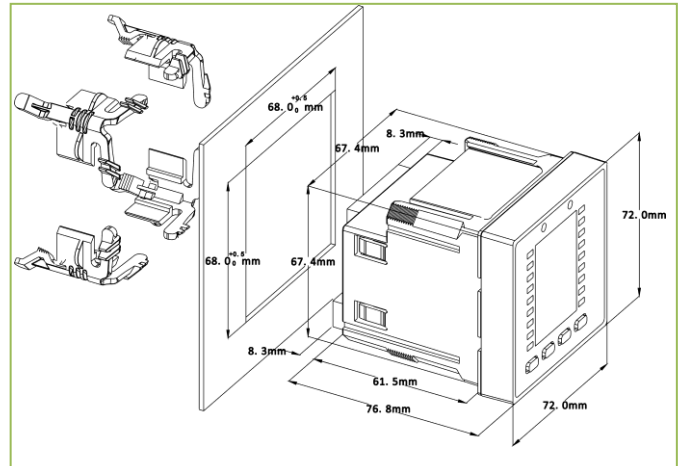
Technical Specifications

Voltage Inputs (V1, V2, V3, VN)	
Standard	240VLN/415VLL
Range	5% to 120% Un
PT Ratio	1-5000
Overload	1.2xUn continuous, 2xUn for 1s
Burden	<0.02VA per phase
Frequency	50-60Hz
Current Inputs (I11, I12, I21, I22, I31, I32)	
Standard	5A (Optional 1A)
SCCT Option	100A/40mA SCCT
Range	0.1% to 120% In
CT Ratio	1-6,000 (5A input)/1-30,000 (1A input)
Overload	1.2xIn continuous, 20xIn for 1s
Burden	<0.25VA per phase
Power Supply (L/+, N/-, GND)	
Standard	95-250VAC/DC, ±10%, 47-440Hz
Burden	<2W
Optional Digital Inputs (DI1, DI2, DIC)	
Type	Dry contact, 24VDC internally wetted
Sampling	1000Hz
Hysteresis	20ms minimum
Optional Digital Output (DO11, DO12)	
Type	Form A Mechanical Relay
Loading	5A @ 250VAC or 30VDC
Optional Analog Outputs (AO+, AO-)	
Type	0-20 / 4-20 mA
Parameter	Selectable
Loading	500 Ω maximum
Overload	24 mA maximum
Environmental Conditions	
Operating Temp.	-25°C to 70°C
Storage Temp.	-40°C to 85°C
Humidity	5% to 95% non-condensing
Atmospheric Pressure	70 kPa to 106 kPa
Mechanical Characteristics	
Panel Cutout	68x68 mm
Unit Dimensions	72x72x76.8 mm
IP Rating	52
Shipping Weight	0.802 kg
Shipping Dimensions	125x110x80 mm

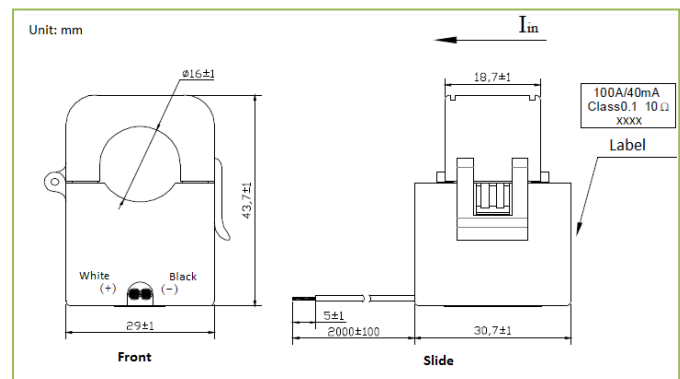
Standards of Compliance

Safety Requirements		
CE LVD 2006 / 95 / EC	EN61010-1-1-2001	
Insulation	IEC 60255-5-2000	
Dielectric test:	2kV @ 1 minute	
Insulation resistance:	>100MΩ	
Impulse voltage:	5kV, 1.2/50μs	
Electromagnetic Compatibility CE EMC Directive 2004 / 108 / EC (EN 61326: 2006)		
Immunity Tests		
Electrostatic discharge	IEC 61000-4-2: 2001 Level IV	
Radiated fields	IEC 61000-4-3: 2002 Level III	
Fast transients	IEC 61000-4-4: 2004 Level III	
Surges	IEC 61000-4-5: 2005 Level IV	
Conducted disturbances	IEC 61000-4-6: 2006 Level III	
Magnetic fields	IEC 61000-4-8: 2001 Level IV	
Oscillatory waves	IEC 61000-4-12: 1995 Level III	
Emission Tests		
Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment	EN 55011: 2009 + A1: 2010 (CISPR 11)	
Limits and methods of measurement of radio disturbance characteristics of information technology equipment	EN 55022: 2010 (CISPR 22)	
Limits for harmonic current emissions for equipment with rated current ≤16 A	EN 61000-3-2: 2006+A1: 2009 +A2: 2009	
Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤16 A	EN 61000-3-3: 2008	
Emission standard for residential, commercial and light-industrial environments	EN 61000-6-4: 2007	
EMC Generic Standards for industrial environments	EN 61000-6-4: 2007+A1: 2011	
Electromagnetic emission tests for measuring relays and protection Equipment	IEC 60255-25: 2000	
Mechanical Tests		
Vibration Test	Response	IEC 60255-21-1:1998 Level I
	Endurance	IEC 60255-21-1:1998 Level I
Shock Test	Response	IEC 60255-21-2:1998 Level I
	Endurance	IEC 60255-21-2:1998 Level I
Bump Test		IEC 60255-21-2:1998 Level I


Device Dimensions



Accessory Dimensions



Ordering Information



**Ceiec
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Version 20150331

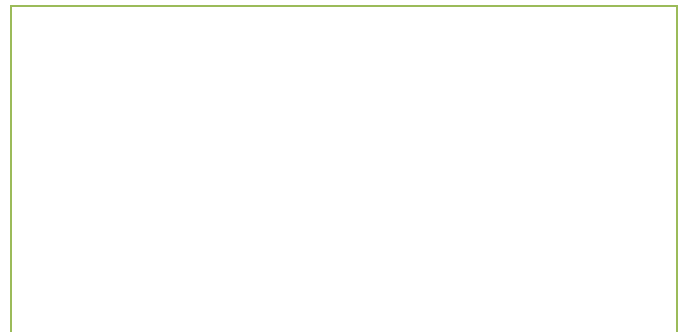
Product Code	Description
PMC-D726M DIN72 3-Phase Multifunction Meter	
Display Screen	Integrated LED
A	
Input Current	20A (120A); SCCT Input
SC100	
1	1A
5	5A
Input Voltage	240V/415V
3	
Power Supply	95-250V AC/DC, 47-440Hz
2	
System Frequency	50Hz
5	
6	60Hz
I/O	
X	None
A*	2xDI
B*	1xDO
C*	1xAO
Communications	
X	None
A*	1 RS-485 port, Modbus
Display Language	
E	English
PMC-D726M A - SC100 3 2 5 X X E	PMC-D726M-ASC100325XXE [Standard Model]

* Additional charges apply

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