



- DIN 72x72, perfect for MCC Panel
- Multifunction Measurements
- THD & 31 Individual Harmonics
- Voltage & Current Phase Angles
- K-Factor, Crest Factor & Unbalance
- TOU, Demands & Max. Demands
- Setpoint Alarms and SOE Log
- RS-485 with Modbus
- Optional Split-Core CT Support
- IEC 62053-21 Class 1 Accuracy
- True RMS Measurements
- Support LED & LCD Option
- Extensive I/O Options
- IP52 Enclosure with no Opening
- Industrial Grade Components
- Standard Tropicalization
- Extended Temperature Range
- Extended Warranty

Designed For Reliability

Manufactured To Last



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 72mmx72mmx71.8mm (LCD) or 72mmx72mmx76.8mm (LED), it is perfectly suited for industrial, commercial and utility metering applications. The PMC-D726M features quality construction, true RMS multifunction measurements and a LED or LCD display. Compliance with the IEC 62053-21 Class 1 kWh Accuracy Standard, it provides optimum Price to Value ratio and is a cost effective replacement for traditional analog instrumentation, capable of displaying 3-phase measurements at once. The PMC-D726M optionally provides Split-Core CT (SCCT) support for retrofit applications, two Digital Inputs for status monitoring, two Digital Output for control, or one 0/4-20mA Analog Output for interfacing with 3rd party SCADA system. The standard SOE Log records meter events such as power-off, setup and DI status changes in 1ms resolution. With a standard RS-485 port and Modbus RTU 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
- Industrial, Commercial and Utility panel metering
- Substation, Factory and Building Automation
- Sub-metering and Cost Allocation
- Ideal for retrofitting with the SCCT option

Features Summary

Ease of use

- Large, bright, backlit LCD or high-contrast LED display
- Front panel kWh and kvarh LED energy pulse outputs
- Password-protected setup via front panel or free PMC Setup software
- Easy installation with mounting clips, no tools required

Measurements

- U_{ln}, U_{ll} per phase and Average
- Current per phase and Average with calculated Neutral
- kW, kvar, kVA, P.F. per phase and Total
- Bi-directional energy measurements
- Frequency

PQ Measurements

- THD, TOHD, TEHD and Individual Harmonics up to 31st
- TDD, K-Factor and Crest-Factor
- U and I Unbalance and Phase Angles

Setpoints

- 6 user programmable setpoints with extensive list of monitoring parameters including Voltage, Current, Power, and Demand
- Configurable Threshold and Time Delay
- SOE Logging and DO trigger

SOE Log

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

TOU and Demand

- One TOU schedule, providing
 - 6 Seasons
 - 6 Daily Profiles, each with 6 Periods in 15-minute interval
 - 10 Holidays or Alternate Days
 - 4 Tariffs, each providing kWh and kvarh Imp/Exp and kVAh
- Demands and Max. Demands with Timestamp for per phase Current, kW Total, kvar Total and kVA total

Inputs and Outputs

- kWh and kvarh LED Energy Pulse Outputs on the Front Panel
- Two Digital Inputs for Status Monitoring
- Two Digital Outputs for Control applications
- Optional one Analog Output at 0/4-20mA

Communications

- Optically isolated RS-485 port at 1200 to 19,200 bps
- Modbus RTU support

System Integration

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

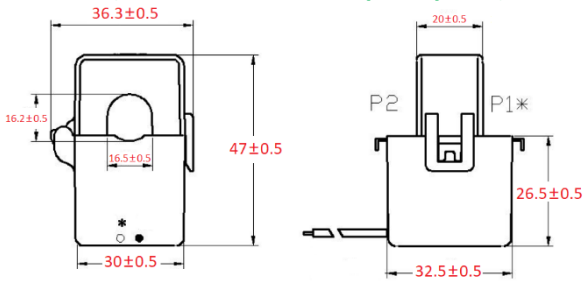
Technical Specifications

Voltage Inputs (V1, V2, V3, VN)	
Standard Range	240VLN/415VLL
Starting Voltage	10V to 120% Un
PT Ratio	10V
Overload Burden	1-1,000,000 (Primary), 1-690 (Secondary) 1.2xUn continuous, 2xUn for 1s <0.02VA per phase
Frequency	45-65Hz
Current Inputs (I11, I12, I21, I22, I31, I32)	
Standard Input	5A
Optional Input	1A
CT Ratio	1-30,000 (Primary), 1-5 (Secondary)
Optional SCCT Input	2mA (SCCTA Option for 5A SCCT) 40mA (SCCT Option for 100-800A SCCT)
Range	0.1% to 120% In
Starting Current	0.1% In
Overload Burden	1.2xIn continuous, 10xIn for 10s, 20xIn for 1s <0.25VA per phase
Power Supply (L/+, N/-)	
Standard Burden	95-250VAC/DC, ±10%, 47-440Hz <2W
Digital Inputs (DI1, DI2, DIC)	
Type	Dry contact, 24VDC internally wetted
Sampling Hysteresis	1000Hz 1ms minimum
Digital Outputs (DO11, DO12, DO21, DO22)	
Type Loading	Form A Mechanical Relay 5A @ 250VAC or 30VDC
Analog Output (AO+, AO-)	
Type Parameter Loading Overload	0-20 / 4-20 mA Selectable 500 Ω maximum 24 mA maximum
Environmental Conditions	
Operating Temp. Storage Temp. Humidity Atmospheric Pressure	-25°C to 70°C -40°C to 85°C 5% to 95% non-condensing 70 kPa to 106 kPa
Mechanical Characteristics	
Panel Cutout Unit Dimensions IP Rating Shipping Weight Shipping Dimensions	68x68 mm 72x72x71.8 mm (LCD), 72x72x76.8 mm (LED) 52 0.802 kg 125x110x80 mm

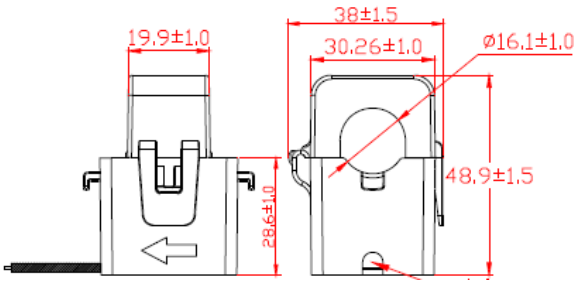


SCCT Dimensions

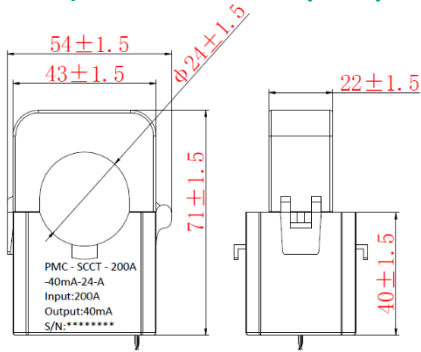
5A/2mA (for SCCTA Current Input Option)



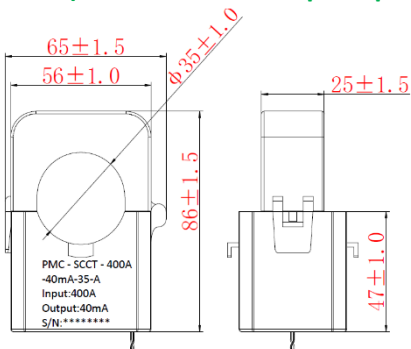
100A/40mA (for SCCT Current Input Option)



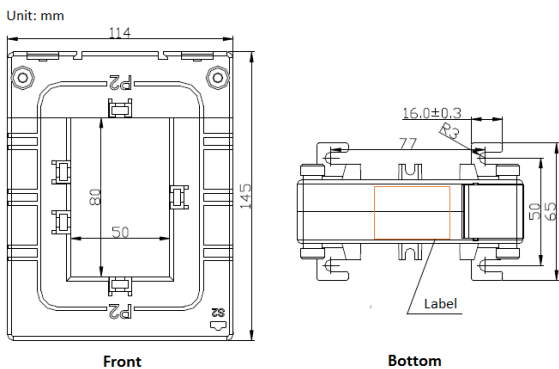
200A/40mA (for SCCT Current Input Option)



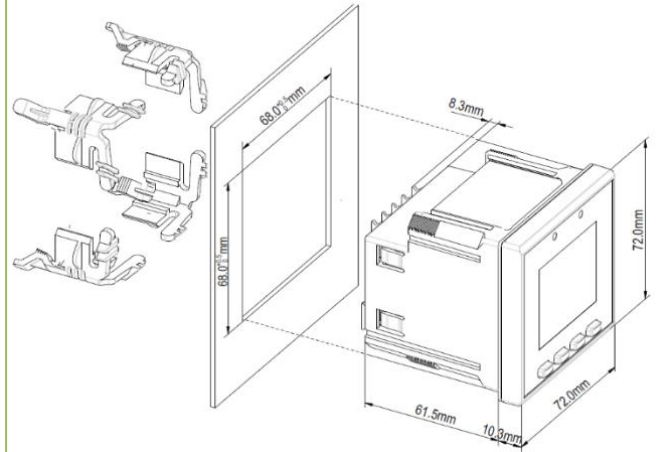
400A/40mA (for SCCT Current Input Option)



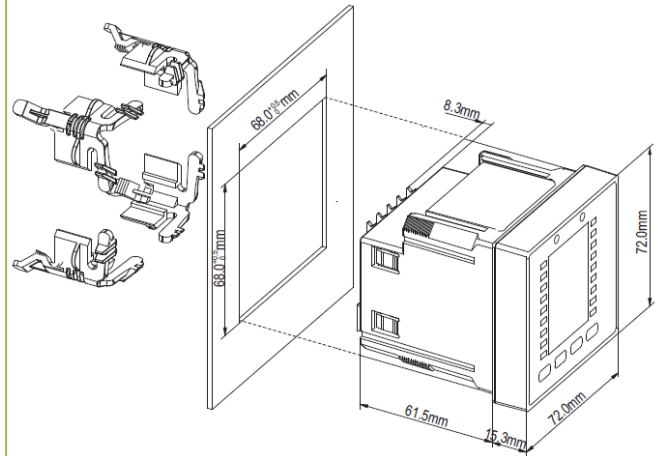
800A/40mA (for SCCT Current Input Option)



Device Dimensions, Cutout and Appearance

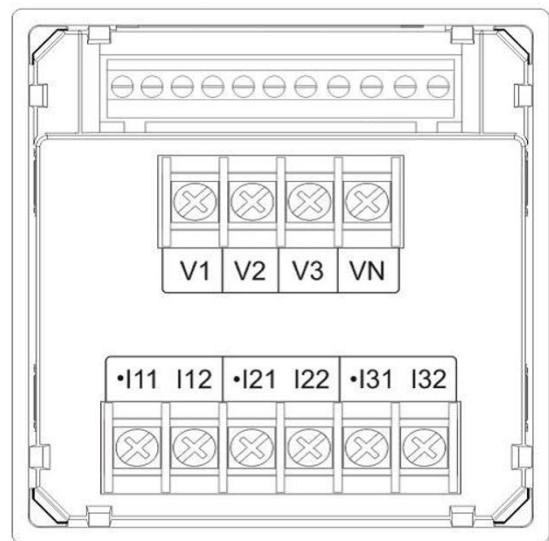


Panel Cutout (LCD)



Panel Cutout (LED)

Digital Inputs			Digital Outputs				RS-485	Power Supply	
DIC	D11	D12	DO11	DO12	DO21	DO22	D+	D-	L+/N-



Rear Panel (LCD & LED)



Accuracy

Parameters	Accuracy	Resolution
Voltage	±0.2% reading	0.1V
Current	±0.2% reading	0.001A
kW, kvar, kVA	±0.5% reading	0.001kX
kWh	IEC 62053-21 Class 1	0.01kWh
kvarh	IEC 62053-23 Class 2	0.01kvarh
P.F.	±1.0% reading	0.001
Frequency	±0.02 Hz	0.01Hz
AO	±0.5% F.S.	-
Harmonics	IEC 61000-4-7 Class B	0.1%
K-Factor	IEC 61000-4-7 Class B	0.1

Standards of Compliance

Safety Requirements	
CE LVD 2006 / 95 / EC	EN 61010-1: 2010 EN 61010-2-030: 2010
Electrical Safety in Low Voltage Distribution Systems up to 1000Vac and 1500 Vdc	IEC 61557-12: 2018 (PMD)
Insulation	IEC 62052-11: 2003 IEC 62053-22: 2003
AC Voltage	2kV @ 1 minute
Insulation Resistance	>100MΩ
Impulse Voltage	6kV, 1.2/50μs
Electromagnetic Compatibility	
CE EMC Directive 2004 / 108 / EC (EN 61326: 2013)	
Immunity Tests	
Electrostatic discharge	EN 61000-4-2: 2009
Radiated fields	EN 61000-4-3: 2006+A1: 2008+A2: 2010
Fast transients	EN 61000-4-4: 2012
Surges	EN 61000-4-5: 2014+A1: 2017
Conducted disturbances	EN 61000-4-6: 2014
Magnetic fields	EN 61000-4-8: 2010
Voltage Dips and Interruptions	EN 61000-4-11: 2004+A1: 2017
Ring Wave	EN 61000-4-12: 2017
Emission Tests	
Limits and Methods of Measurement of Electromagnetic Disturbance Characteristics of Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment	EN 55011: 2016
Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment	EN 55032: 2015
Limits for Harmonic Current Emissions for Equipment with Rated Current ≤16 A	EN 61000-3-2: 2014
Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems for Equipment with Rated Current ≤16 A	EN 61000-3-3: 2013
Emission Standard for Residential, Commercial and Light-Industrial Environments	EN 61000-6-4: 2007+A1: 2011
Mechanical Tests	
Spring Hammer Test	IEC 62052-11: 2003
Shock Test	IEC 62052-11: 2003
Vibration Test	IEC 62052-11: 2003

Ordering Information

Product Code		Description	
PMC-D726M		DIN72 3-Phase Multifunction Meter	
Display Screen			
**		LED	
L		LCD	
Input Current			
5		5A	
1		1A	
SCCT*		For use with 100A, 200A, 400A and 800A SCCTs with 40mA Output	
SCCTA*		For use with 5A SCCT with 2mA Output	
Input Voltage			
3		240V/415V	
Power Supply			
2		95-250V AC/DC, 47-440Hz	
System Frequency			
5		45-65Hz	
I/O			
C*		1xAO	
D		2xDI+2xDO	
Communications			
A		1xRS-485 Port, Modbus	
Display Language			
E		English	
PMC-D726M	-	5 3 2 5 D A E	PMC-D726M-5325DAE (LED Example)
PMC-D726M	-	L 5 3 2 5 D A E	PMC-D726M-L5325DAE (LCD Example)

* Additional charges apply

Accessories – Split-Core CT Options

PMC-D726M Split-Core CT Spec - Insulation=100MΩ/500VDC, UL94-V0 rated, OC Protection @ 6-8V, 22AWG Output Wire (S1=White, S2=Black)							
Split-Core CT Model No.	Rating	Accuracy	Aperture (mm)	Output Wire	I _{max}	Max. Burden	
PMC-SCCT-100A-40mA-16-A	100A/40mA	0.5	Ø16	2m	200A	10Ω	
PMC-SCCT-200A-40mA-24-A	200A/40mA	0.5	Ø24	2m	240A	10Ω	
PMC-SCCT-400A-40mA-35-A	400A/40mA	0.5	Ø35	2m	480A	10Ω	
PMC-SCCT-800A-40mA-A	800A/40mA	0.5	80x50	2m	960A	10Ω	
PMC-SCCT-5A-2mA-16-A	5A/2mA	2.0	Ø16	2m	20A	226Ω	

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Your Local Representative

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