



- DIN 72x72, perfect for MCC Panel
- IEC 62053-21 Class 1 Accuracy
- Multifunction Measurements
- True RMS Measurements
- THD & 31 Individual Harmonics
- Support LED & LCD Options
- Voltage & Current Phase Angles
- Extensive I/O Options
- K-Factor, Crest Factor & Unbalance
- IP52 Enclosure with no Opening
- TOU, Demands & Max. Demands
- Industrial Grade Components
- Setpoint Alarms and SOE Log
- Standard Tropicalization
- RS-485 with Modbus
- Extended Temperature Range
- Optional Split-Core CT Support
- 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 an 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 Outputs for control, or one 0/4-20mA Analog Output for interfacing with 3<sup>rd</sup> 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

- ULN, ULL 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

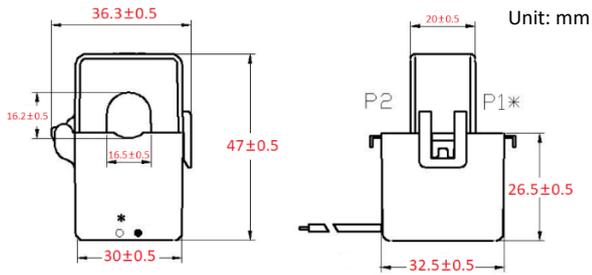
### Technical Specifications

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)
Frequency	1.2xUn continuous, 2xUn for 1s <0.02VA per phase
	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	1000Hz
Hysteresis	1ms minimum
Digital Outputs (DO11, DO12, DO21, DO22)	
Type	Form A Mechanical Relay
Loading	5A @ 250VAC or 30VDC
Analog Output (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	72x72x71.8 mm (LCD), 72x72x76.8 mm (LED)
IP Rating	52
Shipping Weight	0.802 kg
Shipping Dimensions	125x110x80 mm

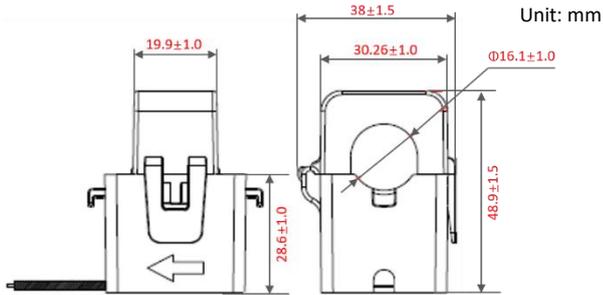


**SCCT Dimensions**

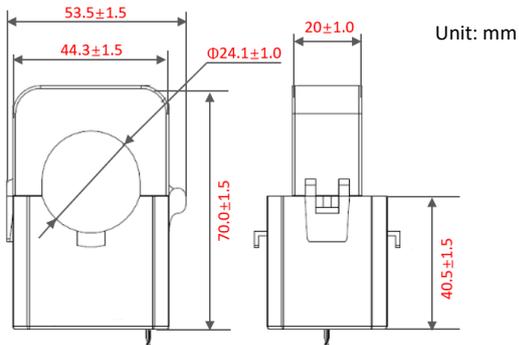
**5A/2mA (for SCCTA Current Input Option)**



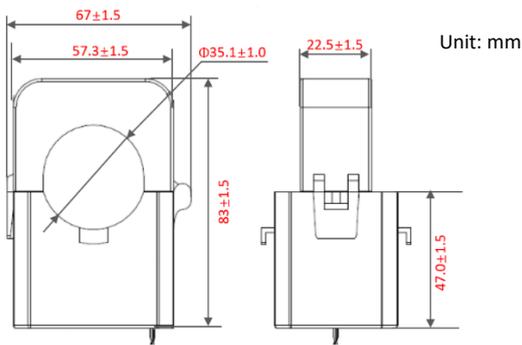
**100A/40mA (for SCCT Current Input Option)**



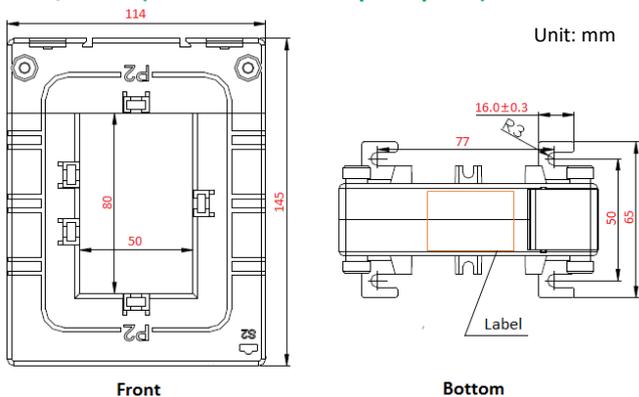
**200A/40mA (for SCCT Current Input Option)**



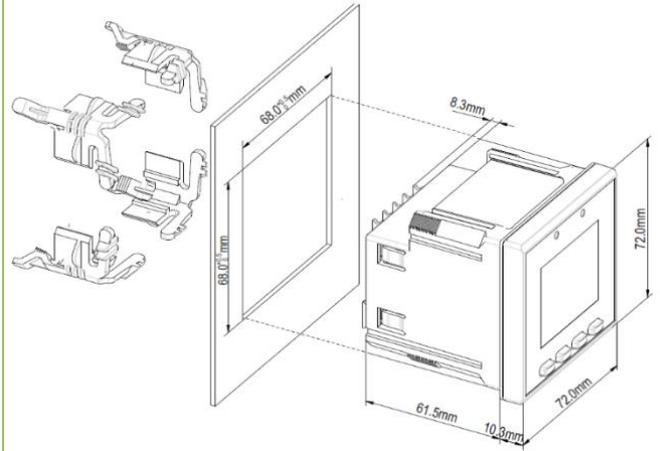
**400A/40mA (for SCCT Current Input Option)**



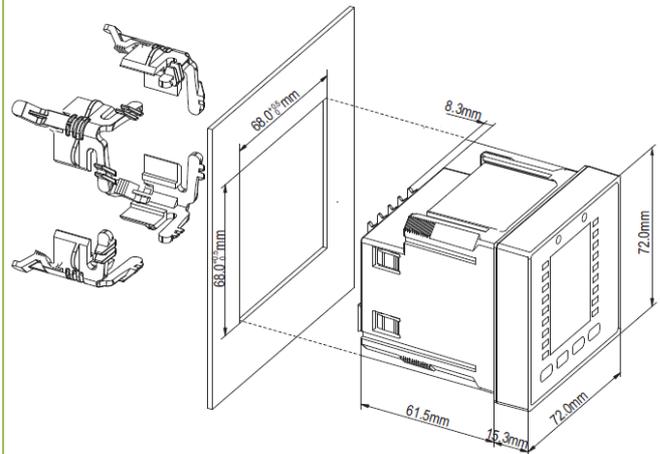
**800A/40mA (for SCCT Current Input Option)**



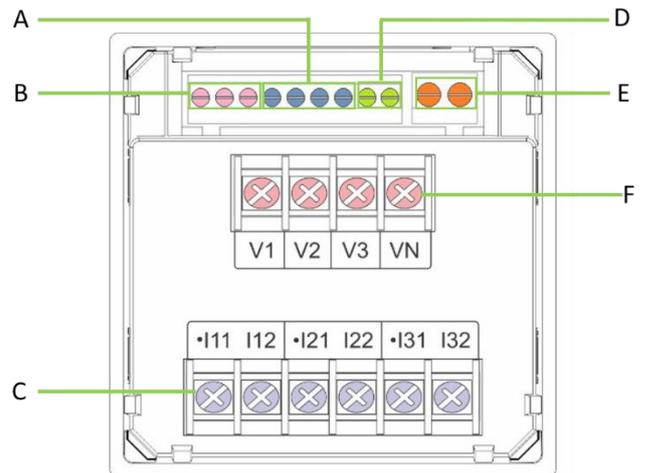
**Device Dimensions, Installation and Rear Panel**



Panel Cutout (LCD)



Panel Cutout (LED)



A	Digital Outputs	D	RS-485 Port
B	Digital Inputs	E	Power Supply
C	Current Inputs	F	Voltage Inputs

Rear Panel-2xDI+2xDO (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 II	0.1%
K-Factor	IEC 61000-4-7 Class II	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

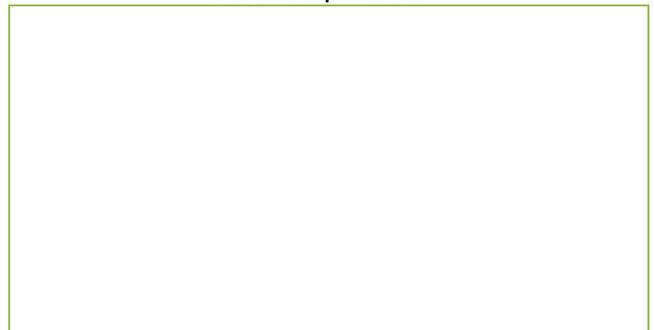
Product Code		Description	
PMC-D726M		DIN72 3-Phase Multifunction Meter	
Display Screen			
**		LED	
L		LCD	
Input Current			
5		5A	
1		1A	
SCCT*		For use with 100A, 200A, 400A and 800A SCCTs with 40mA Output	
SCCTA*		For use with 5A SCCT with 2mA Output	
Input Voltage			
3		240V/415V	
Power Supply			
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=100MG/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 <sub>max</sub>	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	1.0	Ø16	2m	20A	226Ω

Your Local Representative



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