## PMC-D726M DIN72 3-Ø Digital Multifunction Meter



- 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**
- **Optional 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**



### DIN72 3-Ø Digital Multifunction Meter



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 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 the optional 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**

### Fase 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
  - o 6 Seasons
  - 6 Daily Profiles, each with 6 Periods in 15-minute interval

PMC-D726M

- 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

#### **Optional Inputs and Outputs**

- Two Digital Inputs for Status Monitoring
- Two Digital Outputs for Control applications
- One Analog Output at 0/4-20mA
- Two Solid State Relay Output for Energy Pulsing applications

- 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

Technical Specifications							
Voltage Inputs (V1, V2, V3, VN)							
Standard	240VLN/415VLL						
Range	10V to 120% Un						
Starting Voltage	10V						
PT Ratio	1-1,000,000 (Primary), 1-690 (Secondary)						
Overload	1.2xUn continuous, 2xUn for 1s						
Burden	<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	2.5mA (SCCTA Option for 5A SCCT)						
	40mA (SCCT Option for 100-800A SCCT)						
Range	0.1% to 120% In						
Starting Current	0.1% In						
Overload	1.2xIn continuous, 10xIn for 10s, 20xIn for 1s						
Burden	<0.25VA per phase						
Pov	ver Supply (L/+, N/-, GND)						
Standard	95-250VAC/DC, ±10%, 47-440Hz						
Burden	<2W						
Dig	gital Inputs (DI1, DI2, DIC)						
Туре	Dry contact, 24VDC internally wetted						
Sampling	1000Hz						
Hysteresis	1ms minimum						
Digital Out	puts (DO11, DO12, DO21, DO22)						
Туре	Form A Mechanical Relay						
Loading	5A @ 250VAC or 30VDC						
A	nalog Output (AO+, AO-)						
Туре	0-20 / 4-20 mA						
Parameter	Selectable						
Loading	500 Ω maximum						
Overload	24 mA maximum						
Ei	nvironmental 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						
M	echanical 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						

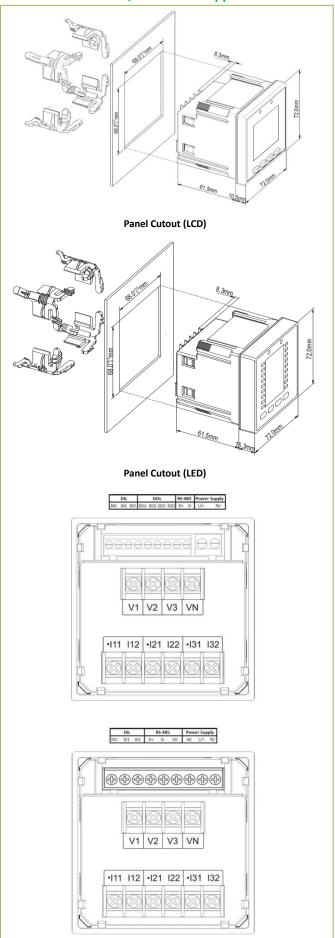


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### **SCCT Dimensions**

# 5A/2.5mA (for SCCTA Current Input Option) ø10,2±1,5 43±1,5 25.5±1.5 100A/40mA (for SCCT Current Input Option) Ø16.1±1.0 30.26±1.0 48,9±1,5 200A/40mA (for SCCT Current Input Option) Ø24.1±1.0 70.0±1.5 40,5±1,5 400A/40mA (for SCCT Current Input Option) Ø35.1±1.0 83±1.5 47,0±1,5 800A/40mA (for SCCT Current Input Option) Label

### **Device Dimensions, Cutout and Appearance**



# PMC-D726M

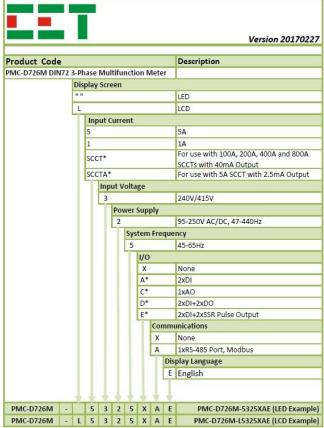
### DIN72 3-Ø Digital Multifunction Meter

### **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	±1% F.S.	-		
Harmonics	IEC 61000-4-7 Class B	0.1%		
K-Factor	IEC 61000-4-7 Class B	0.1		

Safe	<i>ICE</i> tv Requirem	ents					
Safety Requirements							
CE LVD 2006 / 95 / EC	EN 61010-1: 2010						
Insulation	EN 61010-2-030: 2010						
IIISulation	IEC 62052-11: 2003 IEC 62053-22: 2003						
AC Voltago tost:							
AC Voltage test: Insulation resistance:	4kV @ 1 minute						
	>100ΜΩ						
Impulse voltage: 6kV, 1.2/50μs							
Electromagnetic Compatibility							
CE EMC Directive 20		•					
	nmunity Test						
Electrostatic discharge	EN 61000-						
Radiated fields		4-3: 2006+A1: 2008+A2:					
	2010						
Fast transients	EN 61000-4-4: 2012						
Surges	EN 61000-4-5: 2006						
Conducted disturbances	EN 61000-4-6: 2009						
Magnetic fields	EN 61000-	4-8: 2010					
Voltage Dips and	EN 61000	4 11, 2004					
Interruptions	EIN 01000-4	EN 61000-4-11: 2004					
Oscillatory waves EN 61000-4-12: 2006							
E	mission Test	s					
Limits and methods of measu	rement of						
electromagnetic disturbance		EN EE011, 2000, A1, 2010					
characteristics of industrial, s	cientific	EN 55011: 2009+ A1: 2010					
and medical (ISM) radio-frequ	uency	(CISPR 11)					
equipment							
Limits and methods of measu	rement of						
radio disturbance characteris	tics of	EN 55022: 2010+ AC: 2011					
information technology equip	oment	(CISPR 22)					
Limits for harmonic current e		EN 61000-3-2: 2006+A1:					
for equipment with rated cur	2009 +A2: 2009						
Limitation of voltage fluctuat	ions and						
flicker in low-voltage supply s	EN 61000-3-3: 2013						
equipment with rated current ≤16 A							
Emission standard for industrial		EN 61000-6-4: 2007+A1:					
environments	2011						
M	Mechanical Test						
	IEC 62052	11. 2003					
Spring Hammer Test	IEC 62052-						
	IEC 62052- IEC 62052- IEC 62052-	11: 2003					

### **Ordering Information**



<sup>\*</sup> Additional charges apply

### Accessories - Split-Core CT Options

PMG D726M Split-Core CT Spec - Insulation=100MΩ/500VDC, UL94-V0 rated, Open-Circuit Protection @ 6-8V, 22AWG Output Wire (\$1=White, \$2=Black)									
Split-Core CT Model#	Rating	Aperture (mm)	Output Wire	Imax	Accuracy	Rated Load	Max. Burden		
PMC-S CCT-100A-40mA-16-A	100A/40mA	Ø16.1±1	2m	120A	1.0	20Ω	0.046VA		
PMC-S CCT-200A-40mA-24-A	200A/40mA	Ø24.1±1	2m	240A	0.5	10Ω	0.023VA		
PMC-S CCT-400A-40mA-35-A	400A/40mA	Ø35.1±1	2m	480A	0.5	10Ω	0.023VA		
PMC-S CCT-800A-40mA-A	800A/40mA	80x50	2m	960A	0.5	10Ω	0.023VA		
PMC-S CCT-5A-2.5mA-10-A	5A/2.5mA	Ø10.2±1.5	2m	20 <b>A</b>	1.0	200Ω	0.02VA		

### **CET Electric Technology Inc.**

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### **Your Local Representative**



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