

Myz 3-Ø Digital Multifunction Meter

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 72mmx72mmx-71.8mm (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 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

- 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



- 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
- o 6 Daily Profiles, each with 6 Periods in 15-minute interval
- o 10 Holidays or Alternate Days
- o 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 Analog Output at 0/4-20mA

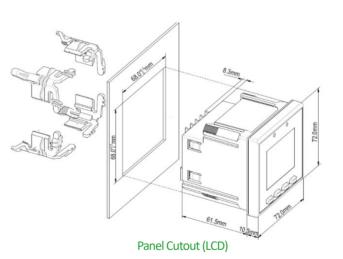
Communications

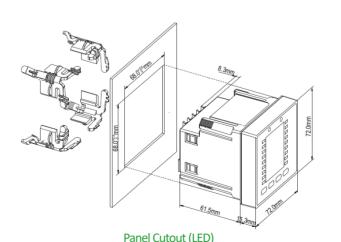
- Optically isolated RS-485 port at 1,200 to 19,200 bps
- Modbus RTU support

System Integration

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

Device Dimensions





Accuracy

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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	±0.02Hz	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

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)

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% ln
Overload	1.2xIn continuous, 10xIn for 10s, 20xIn for 1s
Burden	<0.25VA per phase

95-250VAC/DC, ±10%, 47-440Hz

Digital Inputs (DI1, DI2, DIC) Dry contact, 24VDC internally wetted

1ms minimun

0-20 / 4-20 mA

Digital Outputs (DO11, DO12, DO21, DO22)

Power Supply (L/+, N/-)

Loading	5A @ 250VAC or 30VDC
Analog Output (AO+, AO-	

500 Ω maximum

Operating Temp.

-25°C to 70°C 5% to 95% non-condensing

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			

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Accessories

Split-Core CT Options

Split-Core CTs Model # (PMC-SCCT)	Rating	Aperture Output (mm) Wire		lmax	Accuracy	Max. Burden
100A-40mA-16-A	100A/40mA	ф16	2m	200A	0.5	10Ω
200A-40mA-24-A	200A/40mA	ф24	2m	240A	0.5	10Ω
400A-40mA-35-A	400A/40mA	ф35	2m	480A	0.5	10Ω
800A-40mA-A	800A/40mA	80×50	2m	960A	0.5	10Ω
5A-2mA-16-A	5A/2mA	Ø16	2m	20A	1.0	226Ω

Insulation=100MΩ/500VDC UL94-V0 rated Open-Circuit Protection @ 6-8V 22AWG Output Wire (S1=White, S2=Black)

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 Insulation Resistance Impulse Voltage	2kV @ 1 minute >100MΩ 6kV, 1.2/50μs		

EMC Compatibility CE EMC Directive 2004 / 108 / EC (EN 61326: 2013)

CE EINE BITCHIVE 2004/ 100/ EC (EN 01320, 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 ≤16A	EN 61000-3-2: 2014					
Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems for Equipment with Rated Current ≤16A	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 3-Phase Multifunction Meter									
Display Screen			LED						
Display 3creen	L								LCD
		5							5A
		1							1A
Input Current		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*			1×AO
1/0						D			2×DI +2×DO
Communications							А		1×RS-485 Port, Modbus
Display Language								Е	English
21.10.07201	-	5	3	2	5	D	А	Е	PMC-D726M-5325DAE (LED Example)
PMC-D726M	L	5	3	2	5	D	А	Е	PMC-D726M-L5325DAE (LCD Example)

^{*}Additional charges apply

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