



- IEC 62053-22 Class 0.5S
- True RMS @ 64 Samples/Cycle
- THD with 31st Ind. Harmonics
- Crest Factor and TDD
- Unbalance & Phase Angle
- Simple TOU & Demands
- Max./Min. Log with Timestamps
- Modbus RTU

- Large, Backlit, 7-Segment LCD
- 12 Monthly Energy Log & SOE Log
- Setpoint and I/O
- IP65 Enclosure with No Openings
- Standard Tropicalization
- Industrial Grade Components
- Extended Temperature
- Extended Warranty





The PMC-S963-C Intelligent Multifunction Meter is CET's latest offer for the low-cost digital power/energy metering market. Housed in a standard DIN form factor measuring 96x96x92mm, it is perfectly suited for industrial, commercial and utility applications. The PMC-S963-C features quality construction, multifunction measurements and a large, backlit, 7-Segment LCD that is easy to navigate and user friendly. Compliance with the IEC 62053-22 Class 0.5S Standard, it is a cost-effective replacement for analog instrumentation that is capable of displaying 3-phase measurements at once. It comes standard with four Digital Inputs for status monitoring. In addition, it optionally provides 2xDO, 1xSS Pulse Output and 1xAO for different applications. The standard RS-485 port and Modbus RTU protocol support makes the PMC-S963-C a smart metering component of an intelligent, multifunction monitoring solution for any Energy Management System.

Typical Applications

- Industrial, Commercial and Utility Substation Metering
- Building, Factory and Process Automation
- Sub-metering and Cost Allocation
- Energy Management and Power Quality Monitoring

Features Summary

Ease of use

- Large, backlit, 7-Segment LCD display with wide viewing angle
- Intuitive user interface
- LED indicators for Energy Pulsing and Communication activities
- Password protected setup via Front Panel or free setup software
- Easy installation with mounting clips, no tools required

Basic Measurements

- True RMS @ 64 Samples/Cycle
- ULN, ULL per Phase and Average
- Current per Phase and Average with calculated Neutral
- P. O. S. PF per Phase and Total
- Total RMS kWh, kvarh Import/Export/Net/Total and kVAh Total .
- Per-phase kWh, kvarh Import/Export
- . Frequency

Advanced Measurements

- U and I THD, TOHD, TEHD, TH (RMS) and Individual Harmonics up to 31st
- Current TDD. TDD Odd. TDD Even and Crest Factor
- U and I Sequence, Unbalance and Phase Angle
- Fundamental U and I per Phase
- kvarh Q1-Q4
- P Present and Predicted Demands as well as Max. Demands with Timestamp for This Month & Last Month (or Since Last Reset & Before Last Reset)
- One Simple TOU schedule providing
 - 4 Seasons
 - o 4 Daily Profiles, each with 14 Periods in 15-minute interval
- o 4 Tariffs, each providing kWh Import
- 12 monthly recording of kWh/kvarh Import/Export/Total/Net, kVAh Total, kvarh Q1-Q4 as well as kWh Import per Tariff

Setpoints

- 9 user programmable setpoints with extensive list of monitoring parameters including Voltage, Current, Power, P Demand, Unbalance, Phase Reversal and THD, etc.
- Configurable thresholds, time delays and DO triggers

PMC-S963-C Intelligent Multifunction Meter

SOE Log

- 32 events time-stamped to ±1ms resolution
- Setup changes, Setpoint and DI status changes and DO operations

Max./Min. Log

- Max./Min. Log with Timestamp for Real-time measurements such as Voltage, Current, In (Calculated), Freq., P, Q, S, PF, Unbalance and THD
- Configurable for This Month & Last Month (or Since Last Reset & Before Last Reset)

Diagnostics

- Loss of Voltage/Current
- P Direction per Phase and Total
- Incorrect U & I Phase Sequence

Communications

- Optically isolated RS-485 port at max. 38,400 bps
- Standard Modbus RTU support

Real-Time Clock

Battery-backed Real-time Clock with 25ppm accuracy (<2s per day)

System Integration

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

Inputs and Outputs

Digital Inputs

- 4 channels, volt free dry contact, 24VDC internally wetted
- 1000Hz sampling for status monitoring with programmable debounce
- Tariff switching based on DI status

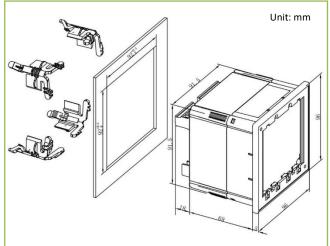
Digital Outputs (Optional)

- 2 Form A Mechanical Relays for alarming and general purpose control **Pulse Output (Optional)**
- I Form A Solid-State Relay for kWh and kvarh pulsing
- **Analog Output (Optional)**
- One channel 0/4-20mA DC output with programmable zero and full scales

Accuracy

Parameters	Accuracy	Resolution
Voltage	±0.2%	0.001V
Current	±0.2%	0.001A
In (Calculated)	±1.0%	0.001A
P, Q, S	±0.5%	0.001kX
kWh	IEC 62053-22 Class 0.5S	0.1kWh
kvarh	IEC 62053-23 Class 2	0.1kvarh
PF	±0.5%	0.001
Frequency	±0.02Hz	0.01Hz
THD	IEC 61000-4-7 Class II	0.001%
AO	±1.0%	-

Dimensions and Installation





Technical Specifications

Voltage Inp	uts (V1, V2, V3, VN)	
Standard Un	240ULN/415ULL	
Range	30V to 1.2Un	
Overload	1.2xUn continuous	
	2xUn for 1s	
Burden	<0.02VA per phase @ 240ULN	
Measurement Category	CAT III up to 300V	
Frequency	45-65Hz	
	11, 112, ·121, 122, ·131, 132)	
Standard In 5A (Optional 1A)		
Range	0.1% to 120% In	
Starting Current	0.1% In	
Overload	1.2xIn continuous	
	10xin for 1s	
Burden	<0.25VA per phase @ 5A	
	Supply (L/+, N/-)	
Standard	95-250VAC/DC, ±10%, 47-440Hz	
Burden	<2W	
Overvoltage Category	OVC III up to 300V	
Digital Inputs (DI1, DI2, DI3, DI4, DIC)		
Type	Dry contact, 24VDC internally wetted	
Sampling	1000Hz	
Hysteresis	1ms minimum	
· · · · · ·	Its (D011, D012, D021, D022)	
Type	Form A Mechanical Relay	
Loading	5A @ 250VAC or 30VDC	
Load Type	Resistive	
· · · · · · · · · · · · · · · · · · ·	ulse Output (E+, E-)	
Type Isolation	Form A Solid-State Relay	
	Optical	
Pulse Width	80ms±20ms	
Max. Load Voltage Max. Forward Current	50VDC	
	50mA	
Optional Analog Output (AO+, AO-)		
Type	0/4-20 mA	
Loading	500Ω maximum	
Overload	24mA maximum	
Installation Torque		
Power Supply, U & I Inputs, RS-485 and I/O	5Ib-in (0.5N.m)	
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	
Altitude	< 3000m	
Pollution Degree	2	
Mechanical Characteristics		
Panel Cutout	92x92mm (3.62"x3.62")	
Unit Dimensions	96x96x92mm	
LCD Display Dimensions	61x61mm	
IP Rating	IP65	
in nourig	1.05	

PMC-S963-C Intelligent Multifunction Meter

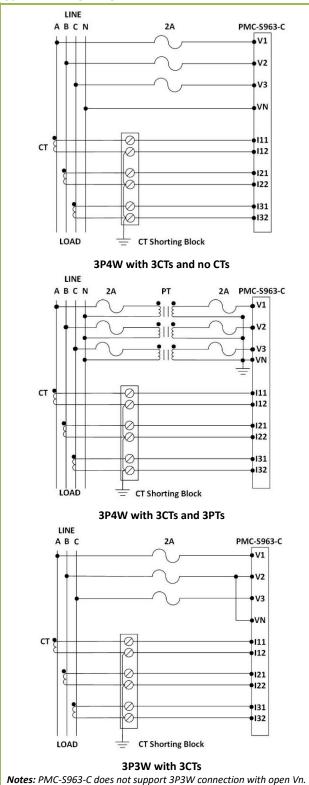
Standards of Compliance

Safety Puicements CE LVD 2014 / 35 / EU EN 61010-1: 2010 + A1: 2019 EN 61010-2:030: 2010 IEC 61557-12: 2018 (PMD) Distribution Systems up to IEC 61557-12: 2018 (PMD) 1000Vac and 1500 Vdc EN 61010-1: 2010 + A1: 2019 Insulation EEC 62052-31: 2015 EN 61010-1: 2010 + A1: 2019 AC Voltage 2kV @ 1 minute Insulation Resistance >1000MQ Impulse Voltage Electromagnetic Compatibility CE EMC Directive 2014 / 30 / EU (EN 61326: 2013) Electromagnetic Could + A1: 2009 Radiated Fields EN 61000-4-2: 2009 Radiated Fields EN 61000-4-3: 2006 + A1: 2008 + A2: 2010 Surges EN 61000-4-5: 2014 + A1: 2017 Conducted Disturbances EN 61000-4-5: 2014 + A1: 2017 Surges EN 61000-4-5: 2014 Voltage Dips and Interruptions EN 61000-4-12: 2017 Radiated Fields EN 61000-4-12: 2017 Umits and Methods of EN 61000-4-12: 2017 Measurement of Electromagnetic Compatibility of Mutimedia Equipment - EN 55032: 2015 + AC: 2016 + A11: 2017 Electomagnetic Compatibility of Mutimedia Equipment - EN 55032: 2015 + AC: 2016 + A11: 2019 </th <th>Cofot: I</th> <th>2</th>	Cofot: I	2			
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	Charle Test	IEC 62052-11: 2020			



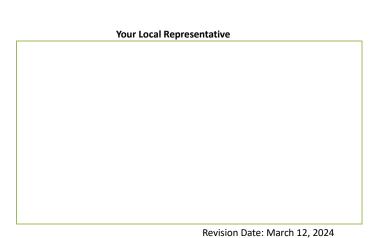
PMC-S963-C **Intelligent Multifunction Meter**

Typical Wiring Diagrams



Rear Panel 1 0000000 $\bigcirc \bigcirc$ •I11 I12 •I21 I22 •I31 I32 V1 V2 V3 VN T H 4xDI (Standard Model)

Ordering Information CET Electric Technology Version 20240312 Product Code Description PMC-S963 Intelligent Multifunction Meter **Basic Function** DIN96 Panel Mounting with Large 7-Segment LCD display. Multifunction Measurements, Demands, С Simple Multi-Tariff TOU, Harmonics up to 31st order Input Current 5A/1A Auto Scaling (Class 0.5S for 5A and Class 1 for 1A) 5 1 1A Input Voltage 240ULN/415ULL 3 wer Supply 95-250 VAC/DC 47-440Hz 2 Frequency 5 45-65Hz I/O Α 4xDI + 2xDO + 1xSS Pulse Output В 4xDI 4xDI + 2xDO + 1xSS Pulse Output + 1xAO С Communication 1xRS-485 A Language E English PMC-S963 - C 5 3 2 5 B A E PMC-S963-C5325BAE (Standard Mod



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