



The Ultimate Solution for PDU/LVDB/Load Center Monitoring Applications

- IEC 62053-22 Class 0.5S (Mains)
- **IEC 62053-21 Class 1 (Branch)** .
- 2xMains Inputs each with 3xV & 4xI
- 21, 42, 63 or 84 Branch Circuits
- Support Solid-Core and Split-Core CT
- Possible In-Service Branch Expansion
- Mixing of 1-Ø, 2-Ø and 3-Ø Feeders
- **10 Virtual Meters (Aggregation)**
- **Dips/Swells Detection with WFR**
- **1GB Non-Volatile Log Memory**
- Data, Energy & Event Recording

- Harmonics on Mains and all Branches
- Max. Demands and Max./Min.
- 4-Level Alarming HH, H, L and LL
- 2xDI, 2xDO and 2xTemp. Inputs
- **Battery-backed Real-Time Clock**
- Ethernet, RS-422/232/485
- **Embedded Web Server**
- **Multi-Protocol Support**
- **User Friendly 7" Color Touch Panel**
- **Industrial Grade Components**
- **Tropicalization & Extended Temp. Range**



O Run UPPER CONNECTORS ABRANGEMENT O Fault O P1 O P2 PMC-592 LOWER CONNECTORS ARRANGEMENT

PMC-592 Main Unit

The PMC-592 MCPM is the ultimate solution for PDU, LVDB and Load Center applications that require multi-circuit monitoring. Housed in a compact metal enclosure, the PMC-592 is perfectly suited for applications that require high density metering. The PMC-592 features quality construction with multifunction and High-Accuracy measurements, two Mains Inputs, up to 84 Branch Circuit Inputs and an optional 7" Touch-Screen HMI. The PMC-592 comes standard with two Digital Inputs for status monitoring, two Digital Outputs for control or alarming as well as two RTD Inputs for temperature measurements. The standard SOE Log records all setup changes, Setpoint alarms and DI/DO operations in 1ms resolution. With Ethernet and dual RS-485 as standard feature supporting Modbus RTU/TCP, HTTP, SMTP as well as SNMP, the PMC-592 becomes a vital component of an intelligent, multi-circuit monitoring solution.

Typical Applications

- Data Center PDUs
- Clean room LVDB (Low-Voltage Distribution Board)
- Load Center Monitoring
- **Ring Main Unit Metering**
- Motor Control Center metering
- Commercial & Residential LV High-Density Multi-Circuit monitoring

Features Summary

Ease of use

- Status LEDs Run, Fault, and Comm. activities
- Self-diagnostic function
- Password protected setup via its built-in Web Interface or optional HMI Display

Dual Mains Inputs

- 3-phase Voltage Inputs for 120ULN/208ULL, 220-240ULN/380-415ULL and 277ULN/480ULL systems
- 4-phase Current Inputs for 5A or 1A CT

Branch CT Inputs

- 100A Solid-Core CT Strip for new PDU installations
- 5A Solid-Core CT Strip for interfacing with external CTs with 5A secondary for LVDB/Load Center applications
- Supported CT Strips include 21x100A, 21x5A, 12x100A or 12x5A
- 100A, 200A, 400A, 800A and 1600A Branch Split-Core CTs

Flexible Configuration

- Programmable CT Ratio and Polarity, Sub-Meter (SM) reference voltage, configurable 2-Ø & 3-Ø SM Grouping, CT Strip Orientation (Sequential or Crossover) and CT Strip Direction (Normal or Reverse)
- Support Single, Dual and Custom Panel Modes arrangement
- Programmable labels for Device, Panel, 1-Ø SMs and VMs

Mains Measurements

- True RMS measurements
- . 2 Mains, each supporting 3 Voltage and 4 Current Inputs
- ULN and ULL per Phase and Average, Frequency
- . I per Phase and Average, measured Neutral Current
- kW, kvar, kVA, PF per Phase and Total
- Loading Factor per Phase and Average
- kWh/kvarh Import/Export, kVAh Total
- Dual Tariff energy accumulation

Multi-Circuit Power Monitor Branch Circuits Measurements

PMC-592 MCPM

- 21, 42, 63 or 84 Branch Current Inputs
- I, kW, kvar, kVA, PF, Loading Factor, kWh, kvarh, kVAh and Maximum Demand with Timestamp

Demand Measurements

- Mains I per Phase, kW Total, kvar Total, kVA Total
- Branch I, kW, kvar, kVA per Circuit and kW Total, kvar Total and kVA Total per 2-Ø or 3-Ø SM
- Max. Demands with timestamp for This Month and Last Month (or Since Last Reset and Before Last Reset)

Sub-Meters (SM)

- Support configurable 1-Ø, 2-Ø and 3-Ø SM
- I Average, Loading Factor, kW, kvar, kVA, PF Total, kWh/kvarh Import and kVAh Total
- Demand Values for I Average, kW, kvar and kVA
- Max. Demands with Timestamp for This Month and Last Month (or Since Last Reset and Before Last Reset)

Virtual Meters (VM)

10 configurable Virtual Meters for arbitrary aggregation of energy consumption from Mains and any of the (84) 1-Ø SMs.

- Support both Addition and Subtraction.
- kW, kWh/kvarh Import and kVAh per VM .
- Dual-Tariff energy accumulation

Power Ouality

- Mains Inputs
 - U and I Unbalance based on Sequence Components 0
 - U and I THD, TOHD, TEHD and Individual harmonics to 31st 0
- Current TDD, K-Factor and Crest Factor 0
 - Dips/Swells and Interruptions detection with Waveform 0 Recording
- Branch Inputs
 - Current THD for each 1-Ø SM 0

Alarms

- Powerful alarming functions for Mains, Branches, RTDs and DIs
- Support High-High, High, Low, and Low-Low Alarms
- Support Phase Loss and Phase Reversal Alarms
- Configurable Threshold and Time Delay
- Support Global Alarm and Mains-I/II Total Summary Alarm Status
- All alarms are recorded in the SOE Log

Max./Min. Recorder

- Mains U, I, Frequency, kW, kvar, kVA, Loading Factor, PF, Unbalance, THD. TOHD. TEHD
- RTD1 and RTD2
- 1-Ø SMs I, kW, kvar, kVA, PF, Loading Factor and I THD
- 2-Ø and 3-Ø SMs I, kW, kvar, kVA, PF and Loading Factor
- Max./Min. Timestamp for This Month and Last Month (or Since Last Reset and Before Last Reset)

Interval Energy Recorder

- Complete energy profiling of Mains-I/II, 1-Ø, 2-Ø and 3-Ø SMs, VMs as well as the Mains-I/II and VMs for Tariffs T1 and T2.
- Programmable Interval at 5, 10, 15, 30 or 60-minute intervals
- Fixed Log Depth at 10,000 entries, capable of recording:
 - 1 month @ 5-min interval 0
 - 2 months @ 10-min interval 0
 - 3 months @ 15-min interval 0
 - 6 months @ 30-min interval 0
 - 1 year @ 60-min interval 0

Waveform Recorder (WFR)

- Support up to 16 WFR Log entries
- Record U1-U3 and I1-I3 for both Mains-I and Mains-II
- Programmable resolution (samples/cycle x # of cycles) at 64x150, 64x75, 32x300, 32x150, 16x600 and 16x300
- Triggered by Dips/Swells and Interruptions

Data Recorders

- 1GB On-board log memory
- 10 Data Recorders of 64 parameters each for a total of 640 Real-time parameters
- Programmable Log Depth (65535 max.) and Recording Interval (60-345600s)



SOF Log

- 1000 events time-stamped to ±1ms resolution
- Setup changes, Power-On/Off, Alarms, Diagnostics and I/O operations

Digital Inputs

- 2 Channels, volt free dry contact, 24VDC internally wetted .
- External status monitoring with programmable debounce .
- 1000Hz sampling
- Tariff Switching based on DI Status for Main and GenSet accumulation **Digital Outputs**

.

2 Channels for external control and alarm - 5A@250VAC/30VDC

RTD Input

2 Channels PT100 (sensor not included)

Real-Time clock

6ppm battery-backed Real-Time Clock (<0.5s per day)

System Integration

- Supported by CET's PecStar® iEMS and iEEM
- Easy integration into other Automation, Energy Management, BMS or SCADA systems via Modbus RTU/TCP and SNMP

Communications

P1/HMI – DB9 Connector

- Modbus RTU
- Compatible with RS-232/422/485
- 1,200 to 38,400 bps

P2 - RS-485

- Modbus RTU
- **Optically Isolated**
- 1,200 to 38,400 bps
- Optional connection with up to 4 external DI Modules

P3 - Ethernet

- 10/100BaseT
- Modbus TCP and Modbus RTU over TCP protocols
- HTTP, SMTP, SNTP, SNMP
- Firmware upgrade via Ethernet port
- Configurable IP Port Number for Modbus TCP and HTTP



Lower Connectors



Touch Screen HMI









100-1600A Branch SCCT





RTD Temperature Sensor



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Instantaneous Alarm



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Alarm Count

Branch Setup







Waveform

Data Recorder Setup



Accuracy

Parameters	Accuracy	Resolution
Mains Voltage	±0.2%	0.01V
Mains 11 - 14	±0.2%	0.001A
kW, kVA	IEC 62053-22 Class 0.5S for Mains	0.001kX
kWh, kVAh	IEC 62053-21 Class 1 for Branches	0.1kXh
la cor la corb		0.001kvar
KVdf, KVdffi	IEC 02053-23 Class 2	0.1kvarh
PF	1%	0.001
Frequency	±0.02 Hz	0.01Hz
Harmonics	IEC 61000-4-7 Class B	0.01%
K-Factor	IEC 61000-4-7 Class B	0.01
RTD	±1.0°	0.1°

Technical Specifications

Main Volta	ge Inputs (V1, V2, V3, VN)
Standard (Un)	277ULN/480ULL
Range	10% to 120% Un
PT Ratio	
Mains I/II-Primary	1-1.000.000V
Mains I/II-Secondary	1-480V
Overload	2xUn continuous, 4xUn for 1s
Burden	<0.05VA@277ULN per phase
Frequency	45-65Hz
Mai	ins Current Inputs
I Nominal (In)	5A/1A (CT rated Input)
Pango	1% to 120%
Starting Current	0.2% of lp
CT Patio	6000 may for 5A 20000 may for 1A
Overland	1 2vlp continuous, 10vlp for 1s
Durdon	
Burden Bower Sup	<0.3VA per phase
Fower Sup	
Standard	95-277VAC/DC, ±10%, 47-440Hz
Burden	 Strength language
CT Datia	Branch Inputs
Burden	<0.05VA per phase
Starting Current	0.2% Imax
Solid-Core CT Strip	
100A	In=100A, Imax=100A, Range= 0.2%-100%
5A	In=5A, Imax=10A, Range= 1%-100%
Split-Core CT	
100A	In=100A, Imax=120A, Range= 5%-120%
200A	In=200A, Imax=240A, Range= 5%-120%
400A	In=400A, Imax=480A, Range= 5%-120%
800A	In=800A, Imax=960A, Range= 5%-120%
1600A	In=1.6kA, Imax=1.92kA, Range= 5%-120%
Solid-Core CT	
400A	In=400A, Imax=480A, Range= 5%-120%
800A	In=800A, Imax=960A, Range= 5%-120%
Digital	Inputs (DI1, DI2, DIC)
Туре	Dry contact, 24VDC internally wetted
Sampling	1000Hz
Debounce	1-9999 ms programmable
Digital Outputs	s (DO11, DO12, DO21, DO22)
Туре	Form A Mechanical Relay
Loading	5A@250VAC/30VDC
RTD Inputs	(TC11, TC12, TC21, TC22)
Туре	PT100
Range	-40 °C to 200 °C
Enviro	onmental 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
Pollution Degree	2
Overvoltage Category	_ CAT III
Mech	anical Characteristics
Enclosure	Galvanized Steel
Unit Dimensions	260 5x154x55 5mm
IP Rating	50

Standards of Compliance

LVD Directive 2014 / 35 / EUEN 61010-1: 2010 EN 61010-2-030: 2010Electrical Safety in Low Voltage Distribution Systems up to 1000Vac and 1500VdcIEC 61557-12: 2018 (PMD)Insulation3.5kV@1 minute >100MQ 6kV, 1.2/50µsAC Voltage Insulation Resistance Insulation Resistance Insulation Resistance Insulation Resistance3.5kV@1 minute >100MQ 6kV, 1.2/50µsElectromagnetic Compatibility EMC Directive 2014 / 30 / EU (EN 61326: 2013)Immunity TestsElectrostatic DischargeEN 61000-4-2: 2009Radiated FieldsEN 61000-4-3: 2006+A1: 2008+A2: 2010Fast TransientsEN 61000-4-4: 2012SurgesEN 61000-4-5: 2014+A1: 2017Conducted DisturbancesEN 61000-4-8: 2010Voltage Dips and InterruptionsEN 61000-4-12: 2017Coscillatory WavesEN 61000-4-12: 2017Limits and Methods of Measurement of Electromagnetic Disturbance Characteristics of Industrial, Scientific and Medical (ISM) Radio-Frequency EquipmentEN 55011: 2016Electromagnetic Compatibility of Multimedia Equipment - Emission Requirements Limits for Harmonic CurrentEN 55032: 2015
Electroical Safety in Low Voltage Distribution Systems up to 1000Vac and 1500Vdc Insulation AC Voltage Insulation Resistance Impulse VoltageEN 61010-2-030: 2010 IEC 61557-12: 2018 (PMD)Electroical Safety in Low Voltage Distribution Systems up to 1000Vac and 1500Vdc3.5kV@1 minute >100MΩ 6kV, 1.2/50µsElectromagnetic Compatibility EMC Directive 2014 / 30 / EU (EN 61326: 2013)Electroical Safety in Low VoltageImmunity TestsElectrostatic DischargeEN 61000-4-2: 2009Radiated FieldsEN 61000-4-3: 2006+A1: 2008+A2: 20102008+A2: 2010Fast TransientsEN 61000-4-4: 2012SurgesEN 61000-4-6: 2014Magnetic FieldsEN 61000-4-6: 2014Magnetic FieldsEN 61000-4-12: 2017Voltage Dips and InterruptionsEN 61000-4-12: 2017Oscillatory WavesEN 61000-4-12: 2017Limits and Methods of Measurement of Electromagnetic Disturbance Characteristics of Industrial, Scientific and Medical (ISM) Radio-Frequency EquipmentEN 55011: 2016Electromagnetic Compatibility of Multimedia Equipment - EmissionEN 55032: 2015Limits for Harmonic CurrentEN 55032: 2015
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Multimedia Equipment - Emission EN 55032: 2015 Requirements Limits for Harmonic Current
Requirements Limits for Harmonic Current
Limits for Harmonic Current
Emissions for Equipment with Rated EN 61000-3-2: 2014
Current ≤16 A
Limitation of Voltage Fluctuations
and Flicker in Low-Voltage Supply
Systems for Equipment with Rated
Current ≤16 A
Emission Standard for Industrial
Environments
Mechanical Tests
Spring Hammer Test IEC 62052-11: 2003
Vibration Test IEC 62052-11: 2003

Dimensions

Main Unit





Split Core CTs (SCCTs)

PMC-SCCT-xxxxA-1A-A (400A – 1000A for Mains Inputs)



Dimension (mm)	Α	в	с	D	E	F	G	н	1	1	к
PMC-SCCT-400A-1A-A	50	80	78	114	145	32	32	32	33	52.5	67.5
PMC-SCCT-600A-1A-A	50	80	78	114	145	32	32	32	33	52.5	67.5
PMC-SCCT-800A-1A-A	80	80	108	144	145	32	32	32	33	52.5	67.5
PMC-SCCT-1000A-1A-A	80	120	108	144	185	32	32	32	33	52.5	67.5

PMC-SCCT-xxxxA-40mA-x-A (100A to 400A for Branch Inputs)



Dimension (mm)	Α	в	с	D	E	F	G	н
PMC-SCCT-100A-40mA-16-A	30.3	38	16.1	48.9	19.9	28.6	30.7	33.9
PMC-SCCT-200A-40mA-24-A	44.3	53.5	24.1	70	20	40.5	45	40.2
PMC-SCCT-400A-40mA-35-A	57.3	67	35.1	83	22.5	47	58.2	42.8

PMC-SCCT-xxxxA-40mA-A (800A – 1600A for Branch Inputs)



Dimension (mm)	Α	в	с	D	E	F	G	н	Т
PMC-SCCT-800A-40mA-A	114	145	80	50	32	77	16	50	65
PMC-SCCT-1600A-40mA-A	143	191	129	55	49.2	108	15.8	54	69

PMC-CT-100A-40mA-12-A (100A for Branch Inputs)

Solid Core CTs



PMC-CT-400A-40mA-A (400A for Branch Inputs)



PMC-CT-800A-40mA-A (800A for Branch Inputs)



HMI (Optional)





Ordering Guides

Main Unit								
		I	CE Ele Tec	T ctri :hn	c olo	gу		Version 20220330
Product Code								Description
PMC- 592 Multi Ci	rcuit	Pow	er M	eter				
	Fun	nction	ality					
	A							The PMC-592 Base Unit comes with 2xMains Inputs, each with 3-phase Voltages and 4-phase Currents, 2xRTD Inputs, 2xD1, 2xD0, 1xR5-422/485 Port (HMI Interface), 1xR5-485 Port and 1x100BaseT Port. It supports up to 4 CT Branches with a maximum 21 CTS per Branch.
	Т	Cur	rent F	Rating	g for	the 2 I	Main	s Feeders
		5						5A: Standard
		1						1A
		Т	Volt	age F	Ratin	g for t	he 2	Mains Feeders
			3					277VLN/480VLL
			Т	Con	trol F	ower	Rati	ngs
				2				95-277 VAC/DC, 47-440Hz
				Т	Pov	ver Sys	stem	Frequency
					5			50Hz
					6			60Hz
					Т	Curr	ent R	ating for Branch Feeders
						100		100A Branch Current Inputs * Select this option for use with 100A Fixed Core CT Strip or with CT Adapter Board and 100A-1600A Branch SCCTs
						010		10(5)A CT Inputs
						50	Lans	* This option cannot be used with Branch SCUIS rue Version for Front Plate
							F	English: Standard for International
			ļ			ļ	Ì	
PMC-592 -	A	5	3	2	5	100	E	PMC-592-A5325100E (Standard Model)

1) The PT100 sensor for the RTD Input is an optional item.
2) Please refer to PMC-592 Accessories for the PT-100 sensor, Mains SCCT, Branch SCCT, Branch CT Strip, CT Adapter
Board and Branch Circuit Cable options.
3) The PMC-592 S'HMI with 7¹¹ LCD with 24VOC power supply module is an optional item.
4) Please refer to the PMC-592 Accessories for the different options of Branch Circuit Cable Length for connecting the

Main Unit to the CT Strip or the SCCT Adapter Board. The Branch Circuit Cable must be ordered separately and can be ordered with different cable length for each Branch Circuit. Please order one Branch Circuit Cable for each Branch.

HMI (Optional)

	l CET Electric Technology	Version 20220330
Product Code		Description
PMC- 592-HMI		
	Basic Function	
	А	7" TFT LCD, 800x480, 1xRS-422/485 port, a RS-422 cable and an external 24VDC Switching Power Supply
	С	Same as 'A' but supports two PMC-592 (168 feeders)
	D	Same as 'A' but supports four PMC-592 (336 feeders)
	Interface Language	
	E	English
PMC-592-HMI -	AE	PMC-592-HMI-AE (Standard Model)

PMC-592-HMI
 - A E
 P
 *The standard cable length for connecting the HMI to the PMC-592 Main Unit is 3.0m.
 Please contact the factory in advance for special requirements.

	CET Electric Technology			Version	202203
		PMC-592 A	ccessories		
		Branch C	T Strips		
Model #	Specifications		Accuracy	Inner Diameter	
PMC-CTS-21A100	21 Fixed Type CT, 100A, 3/4" spacing		0.1	11mm	
PMC-CTS-21B100	21 Fixed Type CT, 100A, 1" spacing		0.1	11mm	
PMC-CTS-21A010	21 Fixed Type CT, 5A, 3/4" spacing		0.1	11mm	
PMC-CTS-12A100	12 Fixed Type CT, 100A, 3/4" spacing		0.1	11mm	
PMC-CTS-12A010	12 Fixed Type CT, 5A, 3/4" spacing		0.1	11mm	
	сти	Adapter Board	for Split-Core CT		
Model #	Description				
PMC-CT-ADB	То со	nnect up to 21	individual Split-Core or Sc	lid-Core CTs to this board	
Branch Circuit Cable					
Model #	Cable Length	Diameter	Max. Resistance at 20°C		
PMC-BCC-0.4	0.4m	8.2mm	237Ω/Km		
PMC-BCC-1	1.0m 8.2mm 237Ω/Km				
PMC-BCC-1.8	1.8m 8.2mm 237Ω/Km				
PMC-BCC-3	3.0m	8.2mm	mm 237Ω/Km		
PMC-BCC-6	6.0m	8.2mm		237Ω/Km	
PMC-BCC-10	10.0m	8.2mm		237Ω/Km	
Optional Split-Core CT for Mair Please select the 1A option fo	ns (Output Wire Len r PMC-592's Mains	gth = 2.0m) Current Inputs			
Split-Core CT Model #	Current Ratio	ent Ratio Accuracy Aperture (mm) Load			
PMC-SCCT-400A-1A-A	400A/1A	0.5	50x80	5Ω	
PMC-SCCT-600A-1A-A	600A/1A	0.5	50x80	5Ω	
PMC-SCCT-800A-1A-A	800A/1A	0.5	50x80	5Ω	
PMC-SCCT-1000A-1A-A	1000A/1A	0.5	80×120	5Ω	
Optional Split-Core CT for Bran	ch Circuits				
Split-Core CT Model #	Current Ratio	Accuracy	Aperture (mm)	Output Wire Length	Load
PMC-SCCT-100A-40mA-16-A	100A/40mA	0.5	Ø16	2m	20Ω
PMC-SCCT-200A-40mA-24-A	200A/40mA	0.5	Ø24	2m	10Ω
PMC-SCCT-400A-40mA-35-A	400A/40mA	0.5	Ø35	2m	10Ω
PMC-SCCT-800A-40mA-A	800A/40mA	0.5	80x50	Not included	10Ω
PMC-SCCT-1600A-40mA-A	1600A/40mA	0.5	129x55	Not included	10Ω
Optional Solid-Core CT for Bran	nch Circuits				
Solid-Core CT Model #	Rating	Accuracy	Aperture (mm)	Output Wire Length	Load
PMC-CT-100A-40mA-12-A	100A/40mA	0.2	Ø12	2m	20Ω
PMC-CT-400A-40mA-A	400A/40mA	0.2	31x24	Not included	20Ω
PMC-CT-800A-40mA-A	800A/40mA	0.2	103x33	Not included	200
Optional PT100 Sensor					
PT100 Model #			Cable Length		
WZPT-1031			3m		

Accessories



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