

# PMC-S963-E Quick Start Guide

Version 1.0

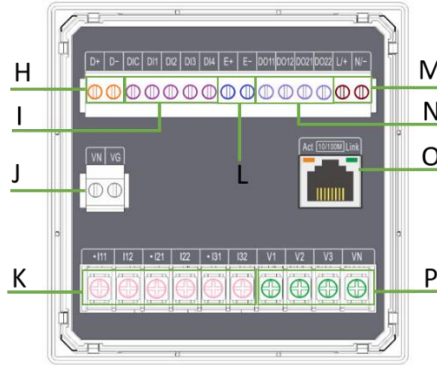
## Package Contents

- PMC-S963-E with all mounting clips and plug-in connectors installed
- Factory Test Report
- CD with PMC-S963-E User Manual
- Quick Start Guide (this document)

## Meter Overview



Front View



Rear View – 4xDI, 2xDO, 1xSS Pulse Output

**PMC-S963-E**

Model: PMC-S963-E5325GEE  
 Power Supply: 95-250V $\overline{\square}$ , 47-440Hz, 2W, OVC III  
 Voltage Inputs: 240V 3~ L-N, 415V 3~ L-L, CAT III  
 Current Inputs: 5A  
 Frequency: 45-65Hz  
 MAC: 00-00-00-00-00-00

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Installation and maintenance should only be performed by qualified and competent personnel who have been properly trained to handle high voltage and current devices in accordance with local and national electrical codes.

Hazardous voltage can cause electric shock, burn or explosion. Disconnect and lockout power source, open all PT secondaries and short all CT secondaries before servicing. Failure to observe proper precaution may result in serious injury or death.

Serial Number & Warning Labels

<b>A</b>	kWh/kvarh LED Pulse Output	<b>G</b>	Buttons	<b>M</b>	Power Supply Terminals
<b>B</b>	Enclosure	<b>H</b>	RS-485 Terminals	<b>N</b>	DO Terminals
<b>C</b>	Front Panel	<b>I</b>	DI Terminals	<b>O</b>	Ethernet Port
<b>D</b>	Communication Indicator	<b>J</b>	Ung Input Terminals	<b>P</b>	Voltage Input Terminals
<b>E</b>	Units				
<b>F</b>	Measurements	<b>L</b>	Solid-State Pulse Outputs		

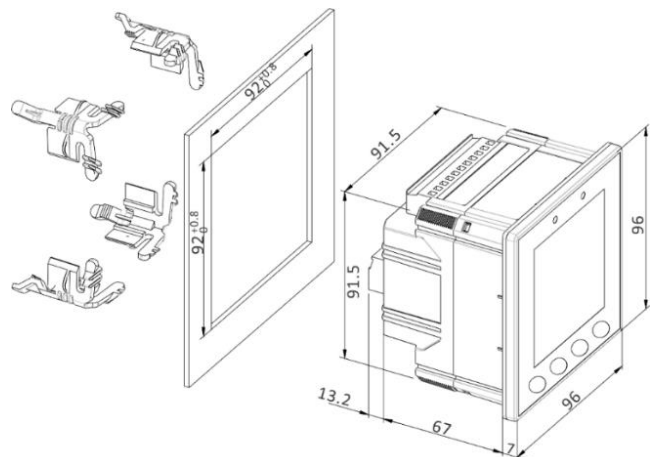
## Using the Front Panel Buttons

Buttons	Data Display Mode	Setup Configuration Mode
<Energy/◀>	Pressing this button toggles between <b>Real-time Measurements*</b> and <b>Energy Measurements</b> .	Once a numeric parameter is selected, pressing this button moves the cursor to the left by one position. Otherwise, this button is ignored.
<▼>	Pressing this button advances to the next measurement page.	<ul style="list-style-type: none"> <li>Before a parameter is selected for modification, pressing this button advances to the next parameter or menu.</li> <li>If a parameter is already selected, pressing this button decrements a numeric value or advances to the next enumerated value in the selection list.</li> </ul>
<▲>	Pressing this button returns to the previous measurement page.	<ul style="list-style-type: none"> <li>Before a parameter is selected for modification, pressing this button returns to previous parameter or menu.</li> <li>If a parameter is already selected for modification, pressing this button increments a numeric value or goes back to the last enumerated value in the selection list.</li> </ul>
<Setup/↔>	Pressing this button returns to the default page (P/Q/S Total). Pressing this button for more than 2 seconds enters the <b>Setup Configuration</b> mode.	<ul style="list-style-type: none"> <li>Once inside the <b>Setup Configuration</b> mode, pressing this button selects a parameter for modification or chooses whether to enter a sub-menu.</li> <li>After changing the parameter pressing this button again saves the new setting into memory.</li> <li>Pressing this button for more than 2 seconds returns to previous menu or exits <b>Setup Configuration</b> mode.</li> </ul>
<Energy/◀> & <Setup/↔>	Pressing this combination for 2 seconds toggles between the <b>Data Display</b> and <b>Quick Setup</b> mode, which provides quick access to setup parameters such as CT1, CT2, PT1, PT2, IP (Ethernet IP Address) and ID (Unit ID).	

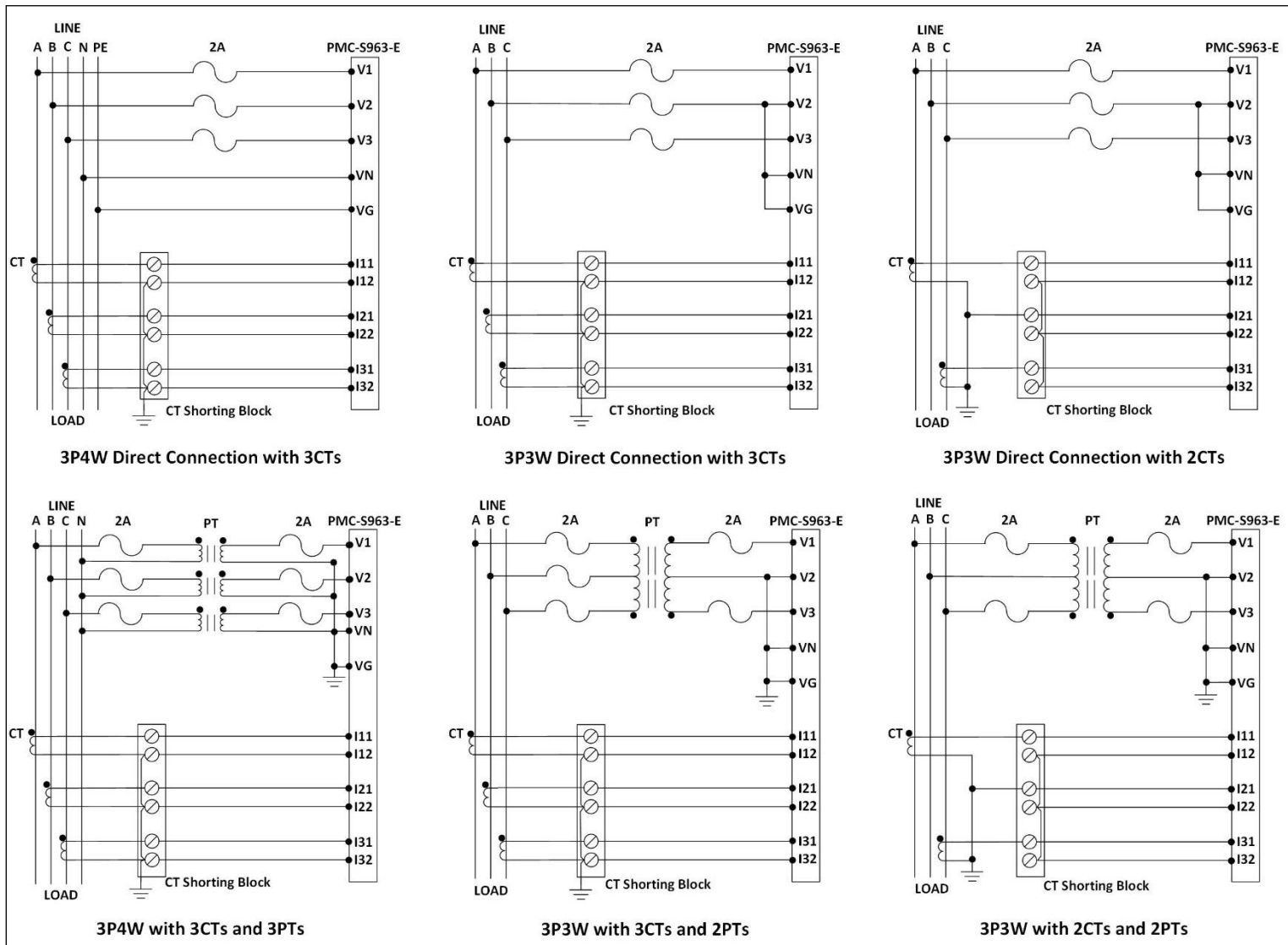
\* The **Real-time Measurements** include P/Q/S per Phase and Total, ULN/ULL/I/PF per Phase and Average, Inc, Ung as well as Freq., P Present and Predicted Demands as well as This/Last Max. Demand, U & I Phase Angle, Unbalances, THD/TOHD/TEHD per Phase and Individual Harmonics from 2<sup>nd</sup> to 31<sup>st</sup>.

## Mounting the Meter

- Remove the installation clips from the meter.
- Fit the meter through a 96mmx96mm cutout as shown in the right Figure.
- Re-install the installation clips and push the clips tightly against the panel to secure the meter.



## Wiring Diagrams



## Basic Setup Parameters

Menu	Parameters	Description	Options/Range	Default
<b>Password Setup</b>	/	Password	0000 to 9999	0
<b>Basic Setup</b>	WIRE TYPE	The Wiring Connection of the meter	DEMO/3P3W/3P4W	3P4W
	CT 1*	Primary CT Ratio	1 to 30,000 (A)	5A
	CT 2*	Secondary CT Ratio	1 to 5 (A)	5A
	PT 1*	Primary PT Ratio	1 to 1,000,000 (V)	100V
	PT 2*	Secondary PT Ratio	1 to 690 (V)	100V
	PF	Set PF Convention	IEC/IEEE/-IEEE	IEC
	kVA	Set kVA Calculation Method	Vector/Scalar	Vector
	THD	Select between % of Fundamental or % of RMS	THDF/THDR	THDF
	PRD TIME	Set Demand Period	1 to 60 (min)	15
	SUB NUM	Set No. of Sliding Windows	1 to 15	1
	PRED RESP	Predicted Demand Response	70 to 99 (%)	70
	LED PULSE	Enable LED kWh/kvarh Energy Pulsing	Disabled/kWh Tot./kvarh Tot./kWh Imp./kWh Exp./kvarh Imp./kvarh Exp.	kWh Tot.
	DO PULSE	Enable Solid-State Pulsing Output		kWh Tot.
	SR TIME	Self-Read Time for both Max. Demand and Max./Min. Log	0/--D--H D: 1-28; H: 0-23	0
BLTO	Backlight Timeout	0 to 60 mins	5	
I PHS A REV	Reverse Ia CT Polarity	Yes/No	No	
I PHS B REV	Reverse Ib CT Polarity	Yes/No	No	
I PHS C REV	Reverse Ic CT Polarity	Yes/No	No	
<b>Communication Setup</b>	ID*	Set the Modbus Address	1 to 247	Last 2 digits of SN~
	BD	Data rate in bits per second	1200/2400/4800/9600/19200/38400 bps	9600
	CFG	Data Format	8N2/8O1/8E1/8N1/8O2/8E2	8E1
<b>Ethernet Setup</b>	IP*	Ethernet IP Address	/	192.168.0.100
	SM	Ethernet Subnet Mask	/	255.255.255.0
	GW	Ethernet Gateway	/	192.168.0.1

\* These setup parameters are available in the **Quick Setup** mode.

~ If the last 2 digits of SN is 00, the default ID should be 100.