

PMC-S963-C Quick Start Guide

Version 1.0

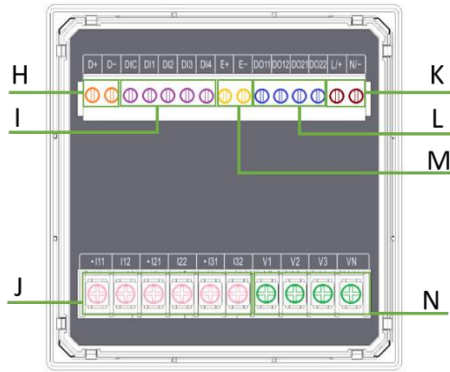
Package Contents

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

Meter Overview



Front View



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

PMC-S963-C

Model: PMC-S963-C5325AAE
 Power Supply: 95-250V $\bar{\sim}$, 47-440Hz, 2W, OVC III
 Voltage Inputs: 240V 3 \sim L-N, 415V 3 \sim L-L, CAT III
 Current Inputs: 5A
 Frequency: 45-65Hz

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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

| | | | | | |
|----------|----------------------------|----------|-------------------------|----------|---------------------------|
| A | kWh/kvarh LED Pulse Output | F | Measurements | K | Power Supply Terminals |
| B | Enclosure | G | Buttons | L | DO Terminals |
| C | Front Panel | H | RS-485 Terminals | M | Solid-State Pulse Outputs |
| D | Communication Indicator | I | DI Terminals | N | Voltage Input Terminals |
| E | Units | J | Current Input Terminals | | |

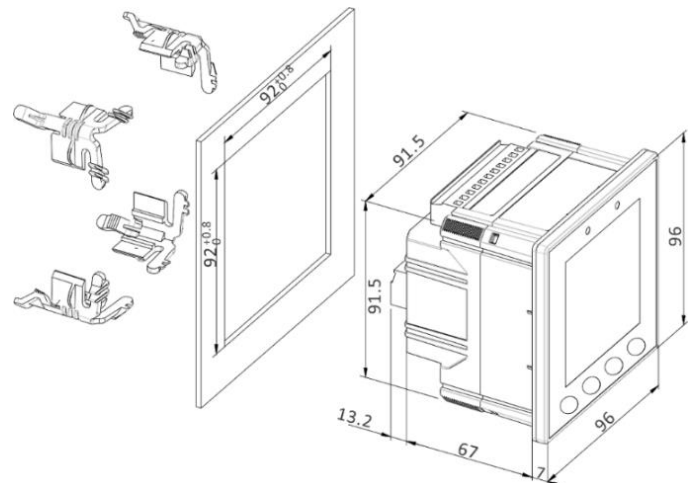
Using the Front Panel Buttons

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

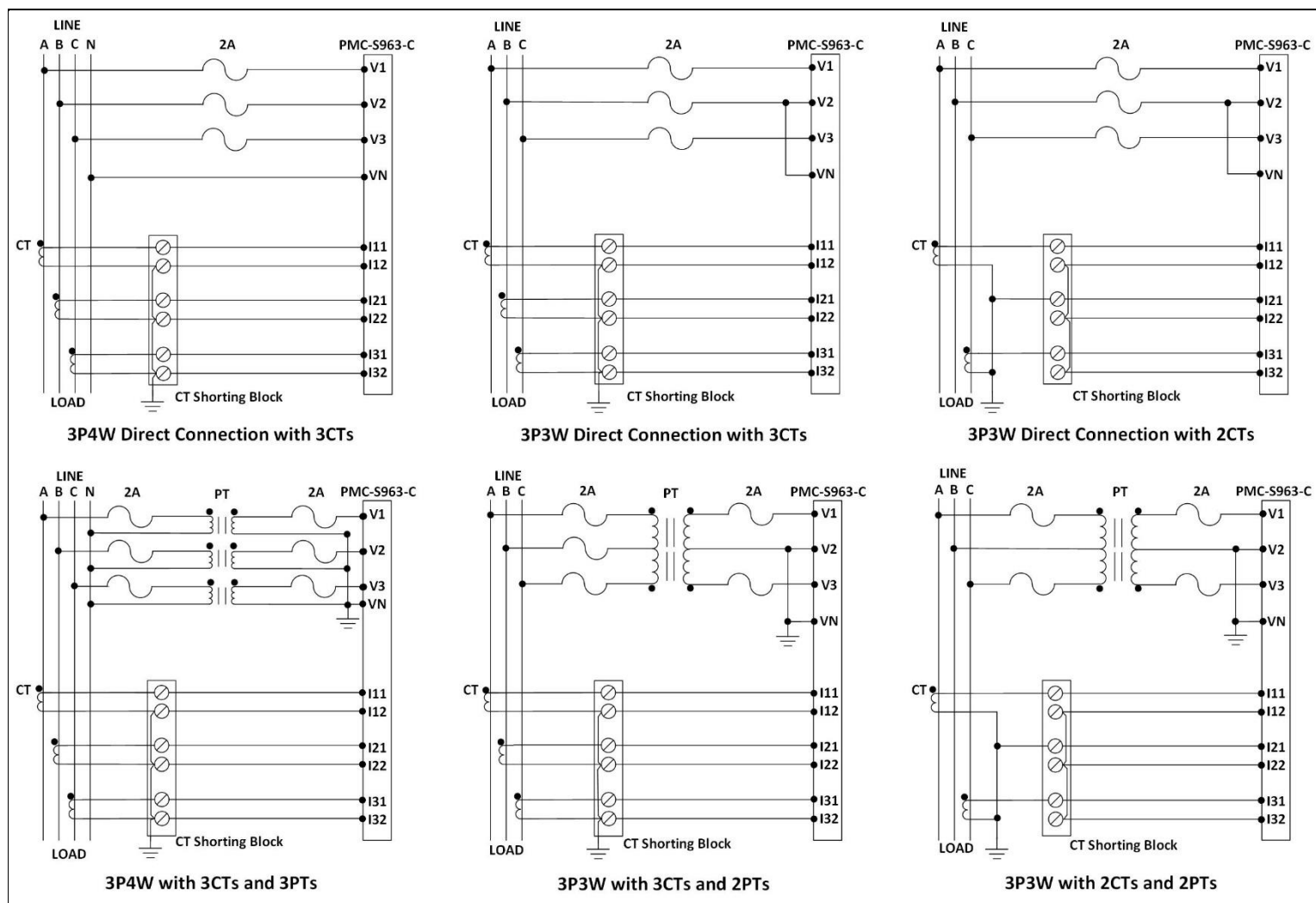
* The **Real-time Measurements** include P/Q/S per Phase and Total, ULN/ULL/I/PF per Phase and Average, Inc as well as Freq., P Present and Predicted Demands as well as This/Last Max. Demand, U & I Phase Angle, Unbalances, THD/TOHD/TEHD per Phase and Individual Harmonics from 2nd to 31st.

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 |
|----------------------------|------------------------|---|--|----------------------|
| Password Setup | / | Password | 0000 to 9999 | 0 |
| Basic Setup | 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 | |
| Communication Setup | 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 |

* 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.