

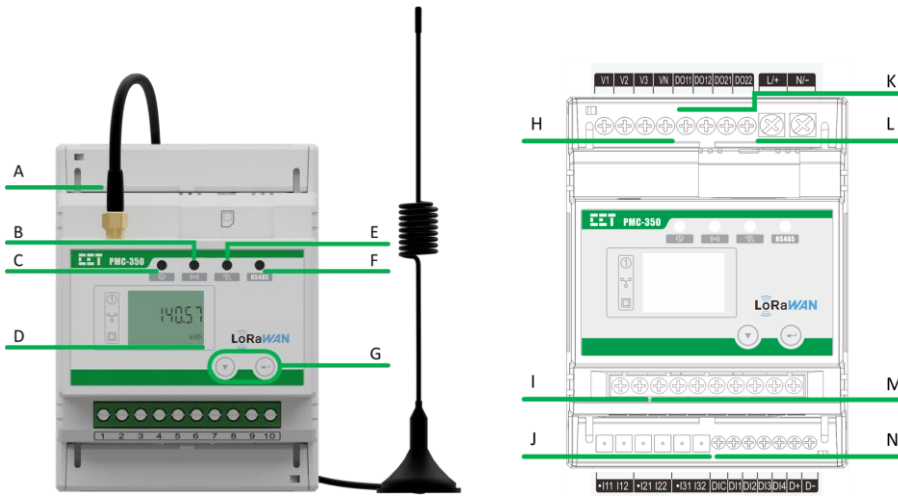
PMC-350-C Quick Start Guide

Version 2.0

Package Contents

- PMC-350-C Meter with all plug-in connectors installed
- Factory Test Report
- Quick Start Guide (this document)

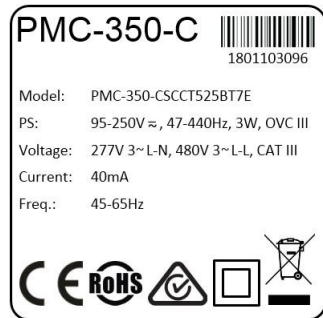
Meter Overview



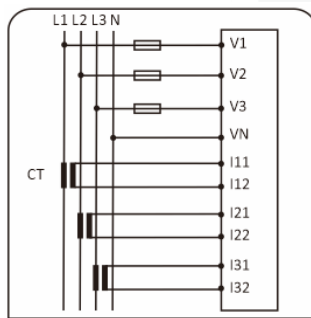
A	LoRaWAN Antenna
B	LoRaWAN Network Connection LED
C	Heartbeat LED
D	LCD Display
E	LoRaWAN Wireless Data Activities LED
F	RS-485 Activities LED
G	Buttons
H	Voltage Inputs
I^	Irresidual Input
J	Current Inputs
K*	Digital Outputs
L	Power Supply
M^	Temperature Inputs
N	Digital Inputs

^Optional

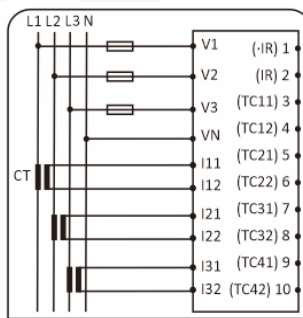
*2xDigital Output can be replaced by optional SS Pulse Outputs



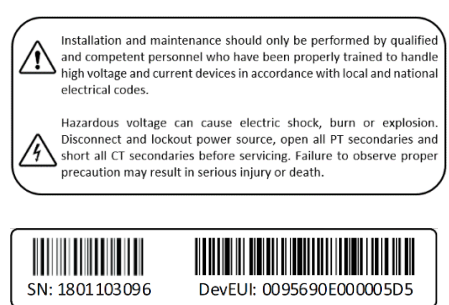
Serial Number Label



Wiring Label



Wiring Label (1xIR+4xTC)



Warning Label and SN & DevEUI Label

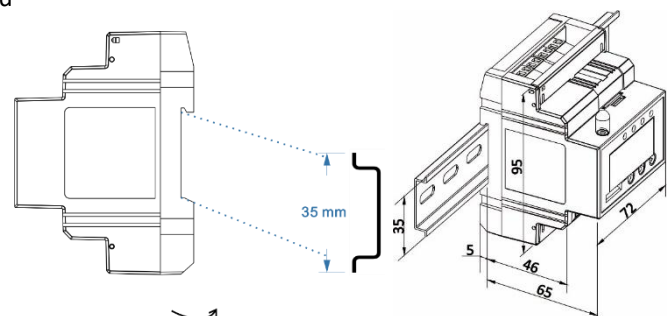
Using the Front Panel Buttons

	<▼>
Data Display Mode	The Default Display shows the kWh Import measurement under the Energy menu. Pressing this button scrolls through the available measurements in this menu.
Setup Configuration Mode	Before an item is selected, pressing this button scrolls to the next setup parameter. If the selected parameter is a numeric value, pressing this button increments the selected digit. If the selected parameter is an enumerated value, pressing this button scrolls through the selection list.
	<<=>
Setup Configuration Mode	Pressing this button for two seconds toggles between Data Display mode and Setup Configuration mode. Once inside the Setup Configuration mode, pressing this button selects a parameter for modification. Once selected, the parameter value blinks while it's being changed. If the selected parameter is a numeric value, the cursor is at the right most digit by default. Pressing this button moves the cursor one position to the left. If the cursor has reached the left most digit, pressing this button again will save the current numeric value into memory.

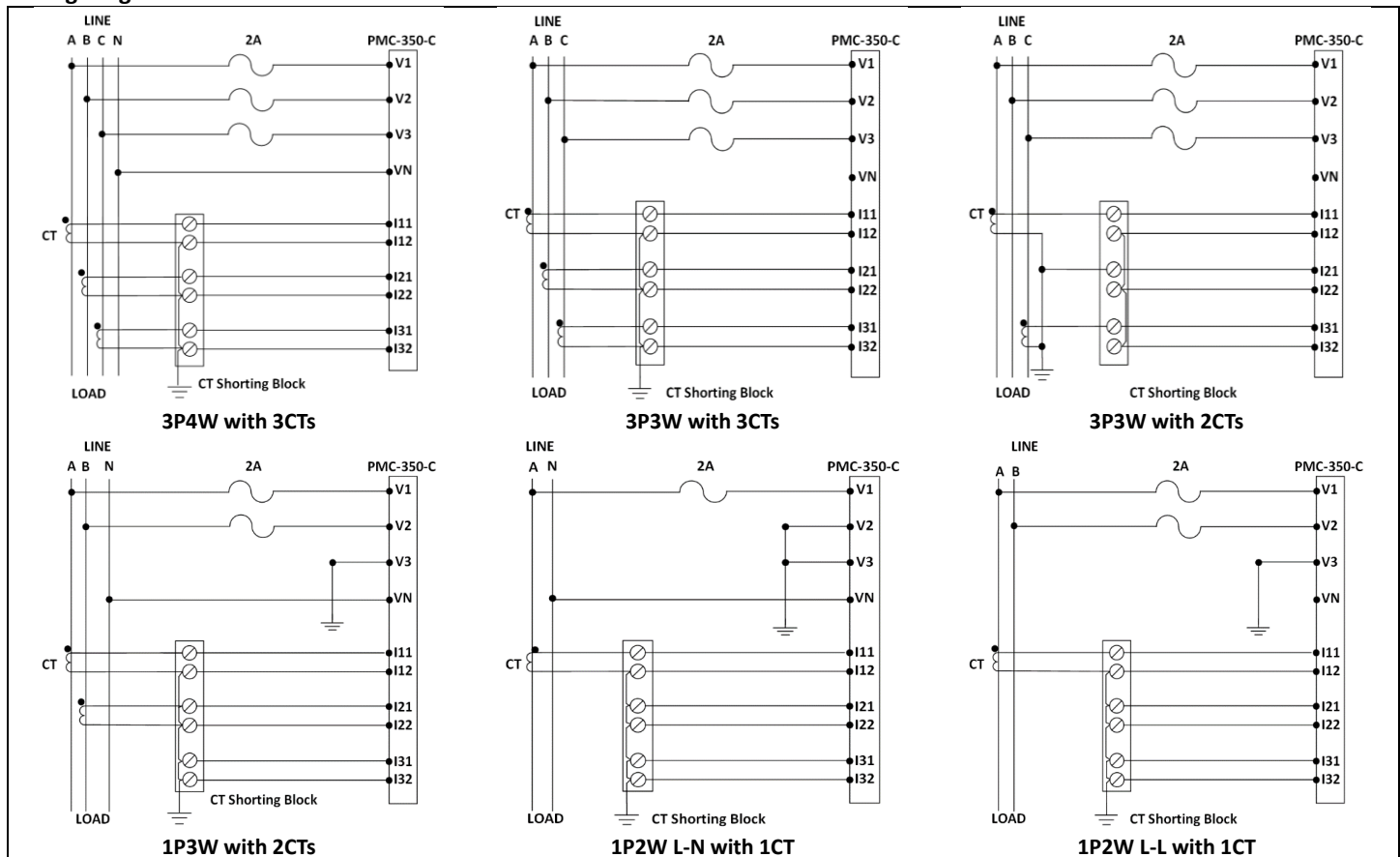
Mounting the Meter

The PMC-350-C should be installed in a dry environment with no dust and kept away from heat, radiation and electrical noise source.

- Before installation, make sure that the DIN Rail is already in place
- Move the DIN Rail locking clip at the back of the PMC-350-C downward to the "unlock" position
- Align the top of the mounting channel at the back of the PMC-350-C at an angle against the top of the DIN rail as shown in figure right
- Rotate the bottom of the PMC-350-C towards the back while applying a slight pressure to make sure that the device is completely and securely fixed on to the DIN Rail
- Push the DIN Rail locking clip upward to the "lock" position to secure the PMC-350-C on to the DIN Rail

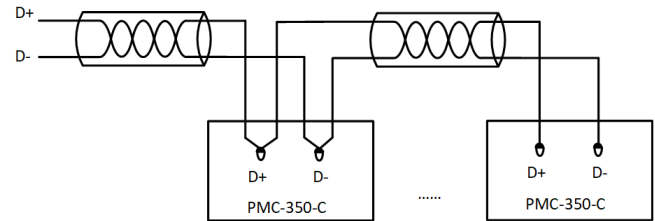


Wiring Diagrams



RS-485 Wiring

- The PMC-350-C provides one standard RS-485 port that supports the Modbus RTU protocol. Up to 32 devices can be connected on a RS-485 bus. The overall length of the RS-485 cable connecting all devices should not exceed 1200m.
- If the master station does not have a RS-485 communications port, a RS-232/RS-485 or USB/RS-485 converter with optically isolated outputs and surge protection should be used.



LoRaWAN Connection

- The DevEUI information can be found on a label underneath the Front Panel. The AppEUI and AppKey should be pre-configured at the factory according to the customer's specification.



Basic Setup Parameters

Menu	Parameters	Description	Range/Options	Default
PW	Password	Enter Password	0 to 9999	"0"
	Wiring Mode	The wiring connection of the meter	DEMO/1P3W/3P3W/3P4W/1P2W L-N/1P2W L-L	3P4W
PT1	PT Primary	PT Primary	1 to 1,000,000 V	380 V
PT2	PT Secondary	PT Secondary	1 to 690V	380 V
CT1 ¹	CT Primary	CT Primary	1 to 30,000A	5 A
CT2 ¹	CT Secondary	CT Secondary	1 to 5A	5 A
SCCT ²	SCCT Type	SCCT Type	100/200/400/800/1600	100
rC ²	Rogowski Coil Type	Rogowski Coil Type	400/1200/2500/5000	400
Id	Meter Address	Meter Address	1-247	100
Bd	Baud rate	Data rate in bits per second	1200/2400/4800/9600/19200/38400	9600
CFG	RS-485 Port Configuration	Data Format	8N2/8O1/8E1/8N1/8O2/8E2	8E1
	LoRaWAN Channel	Set the LoRaWAN Channel	RU864, IN865, EU868, US915, AU915, KR920, AS923-1, AS923-2, AS923-3, AS923-4	EU868
Adr ³	ADR (Adaptive Data Rate)	Enable/Disable LoRaWAN ADR	On, Off	On
P	Power	Set LoRaWAN transmission power	20/17/16/14/10/7/5/2 (dbm)	20
Dr	Data Rate	Set LoRaWAN data transmission rate	DR0, DR1, DR2, DR3, DR4, DR5, DR6, DR7	DR5
CLASS	Class	Set LoRaWAN device class	Class A, Class C	Class C
SCnT	Sending Counter	Set LoRaWAN transmission counter	1 to 8	8
Port	LoRaWAN FPort	Set LoRaWAN FPort	1 to 233	10

Notes:

- CT Primary and CT Secondary are only valid for 5A Current Input or 5A/2mA SCCT options.
- SCCT Type and Rogowski Coil settings are valid for SCCT Input and Rogowski Coil Input options, respectively.
- It's recommended to enable LoRaWAN ADR so that the LoRaWAN network infrastructure can manage the data rate and power for meter.