PMC-340-A6 Quick Start Guide

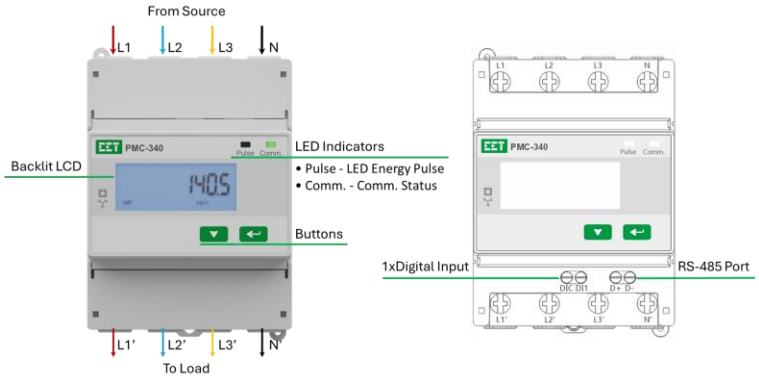
Version 1.0

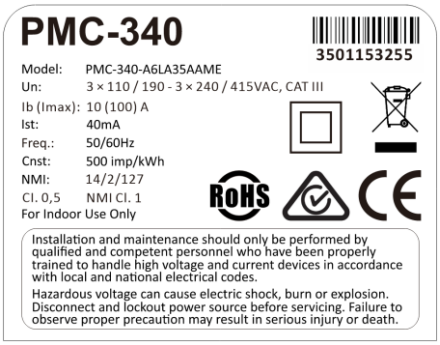
Package Contents

a. PMC-340-A6 Meter with all plug-in connectors installed
b. Factory Test Report
c. Quick Start Guide (This document)

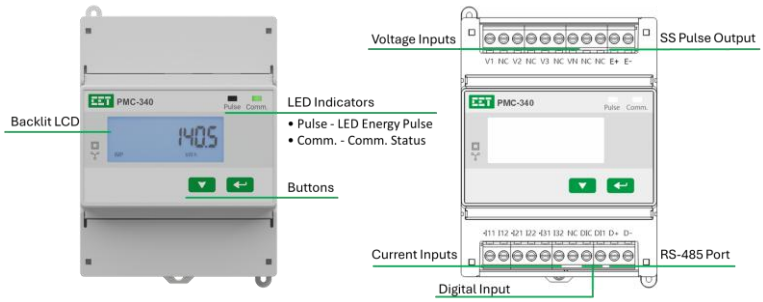
Overview

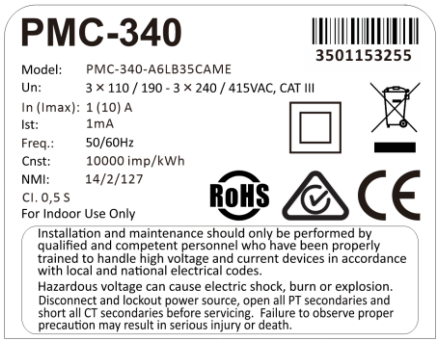
Direct Connected Input





CT Input





Front View **Serial Number Label**

LCD Display

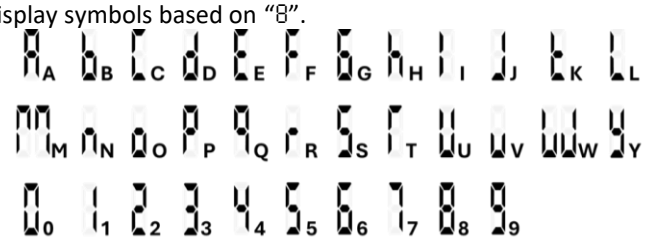
The meter's Front Panel is used for both display and configuration purposes. The LCD display and the two buttons provide access to measurements, meter information and setup configuration.

Symbol	Description
L12L23L31	Phase Indicator
T8	Active Tariff Indicator where T*x* indicates Tariff *x (x=1 to 5)*
	Quadrant Indicator
THD DMD	Total Harmonic Distortion/Demand Indicators
COM	Communication Activities Indicator
	Setpoint Alarm Indicator
	DI status
	DO status
	Main Display Area for Measurements/Time/Version information
IMPEXPNETTOTAVG	k*X*h Import/Export/Net/Total/Average Indicators
MAXMIN	Max./Min. Indicators
MkWAhkvarhHz%	Units

LCD Display

LCD Symbols

The following figure shows the LCD display symbols based on "8".



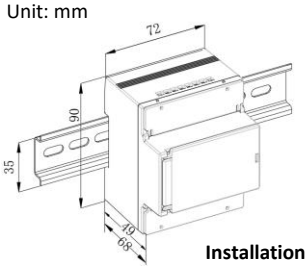
LCD Symbols

Meter Installation Steps

The PMC-340-A6 should be installed in a dry environment with no dust and kept away from heat, radiation and electrical noise sources.

- Before installation, make sure that the DIN Rail is already in place
- Move the installation clip at the back of the PMC-340-A6 downward to the "unlock" position
- Mount the PMC-340-A6 on the DIN Rail
- Push the installation clip upward to the "lock" position to secure the PMC-340-A6 on to the DIN Rail

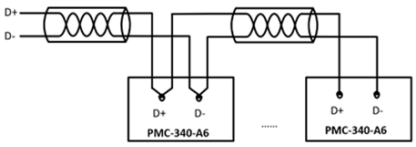
Unit: mm



Installation

RS-485 Wiring

- The PMC-340-A6 provides one standard RS-485 port and supports the Modbus RTU protocol. Up to 32 devices can be connected on an 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 communication port, an RS-232/RS-485 or USB/RS-485 converter with optically isolated outputs and surge protection should be used.



RS-485 Wiring

LCD Testing

Pressing both the **<↵>** and the **<▼>** buttons simultaneously for 2 seconds enters the **LCD Test** mode. During testing, all LCD segments are illuminated and will blink on and off three times before returning to the **Data Display** mode.

Button Functions

Buttons	Data Display Mode	Setup Configuration Mode
<▼>	While at a particular menu, pressing this button scrolls through the available measurements.	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.
<↵>	Pressing this button at any time while in **Data Display** mode will jump to the next available menu item, depending on where the display is at the time. For example, if the display currently shows **Ib** under the **U/I** menu, pressing <↵> now will immediately jump to the **Power** menu.	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 a parameter is 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. Once the cursor has reached the left most digit, pressing this button again will confirm the current change.

Setup Parameters

Menu	Parameter	Description	Range/Options	Default
ProGrAM	Programming	Setup Configuration	/	/
PW	Password	Enter Password	0000 to 9999	"0000"
	Wiring Mode	Set meter's wiring mode	DEMO, 1P2W_LN, 1P2W_LL, 1P3W, 3P3W, 3P4W, 3x1P, 3P3W_N	3P4W
CT1	CT Primary^	Set CT Primary Ratio	1 to 30,000	5 (CT Input) / 10 (Direct Input)
CT2	CT Secondary^	Set CT Secondary Ratio	1 to 10	
PF	Power Factor	Set PF Convention	IEC/IEEE/-IEEE	IEC
kvA	kVA	Set kVA Calculation Method	V=Vector, S=Scalar	V
Id	ID	Set Meter Address	1 to 247	Last 2 digits of SN*
bAUd	Baud Rate	Data rate in bits per second	1200/2400/4800/9600/ 19200/38400 (bps)	9600
CFG	COM Port Configuration	Data Format	8N2/8O1/8E1/8N1	8E1
LEd	LED Energy Pulsing	Configure LED Energy Pulsing	OFF, P Tot., Q Tot., P Imp., P Exp., Q Imp., Q Exp., SEC (for DO Pulse), P Tot.	P Tot.
do	DO Energy Pulsing	Configure DO Energy Pulsing		
CST	Pulse Constant	Set Pulse Constant	1 to 999,999	500 (Direct Input) / 10000 (CT Input)
WidTH	Pulse Width	Set Pulse Width	30 to 500 (ms)	50
	Date	Enter the Current Date	YY-MM-DD	--
	Time	Enter the Current Time	HH:MM:SS	--
	Password	Enter New Password	0000 To 9999	0000
FW	Firmware Version	Firmware Version	e.g. 10002 means V1.00.02	/
Pro	Protocol	Protocol Version	e.g. 1.1 means V1.1	/
	Firmware Release Date	Firmware Version Date	YYMMDD	/
Sn	The left 5 digits	The left 5 digits of SN	XXXXX	/
	The right 5 digits	The right 5 digits of SN	YYYYY	/
FCnT	Front Panel Setup Counter	Counter for Important Setup Parameter Changes via Front Panel	/	/
CCnT	Comm. Setup Counter	Counter for Important Setup Parameter changes via Communication	/	/
CLr EnGy	Clear Energy	Clear all Energy	YES/NO	NO
CLr dMd	Clear Demand	Clear all Demand	YES/NO	NO
CLr Mn	Clear Max./Min.	Clear all Max./Min. Log	YES/NO	NO
CLr SoE	Clear SoE	Clear SOE	YES/NO	NO
CLr dI	Clear DI	Clear DI1 Counter	YES/NO	NO

^ CT Primary and CT Secondary settings are only valid for PMC-340-A6 with CT Input.

* If the last 2 digits of SN are 00, the default Unit ID is 100.