

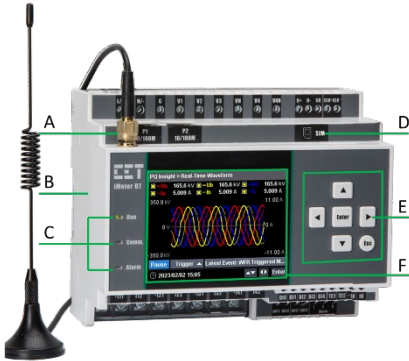
iMeter D7 Quick Start Guide

Version 1.10

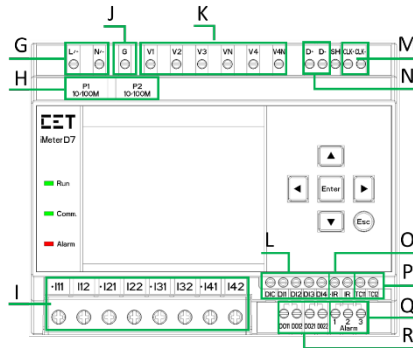
Package Contents

- iMeter D7 with all mounting slide bars and plug-in connectors installed
- Factory Test Report
- CD with iMeter D7 User Manual
- Quick Start Guide (this document)

Meter Overview



Front View



Rear View – 4DI+2DO+1Alarm+IR+TC

iMeter D7

Model: iMeter D7-ASCCPA925AXAE
 Power Supply: 95-250V \pm , 47-440Hz, 10W, OVC III
 Voltage Inputs: 400V 3~L-N, 690V 3~L-L, CAT III
 Current Inputs: S CCP Input (500mV Max.)
 Frequency: 50Hz
 MAC Address 1: 00-00-00-00-00-00
 MAC Address 2: 00-00-00-00-00-00

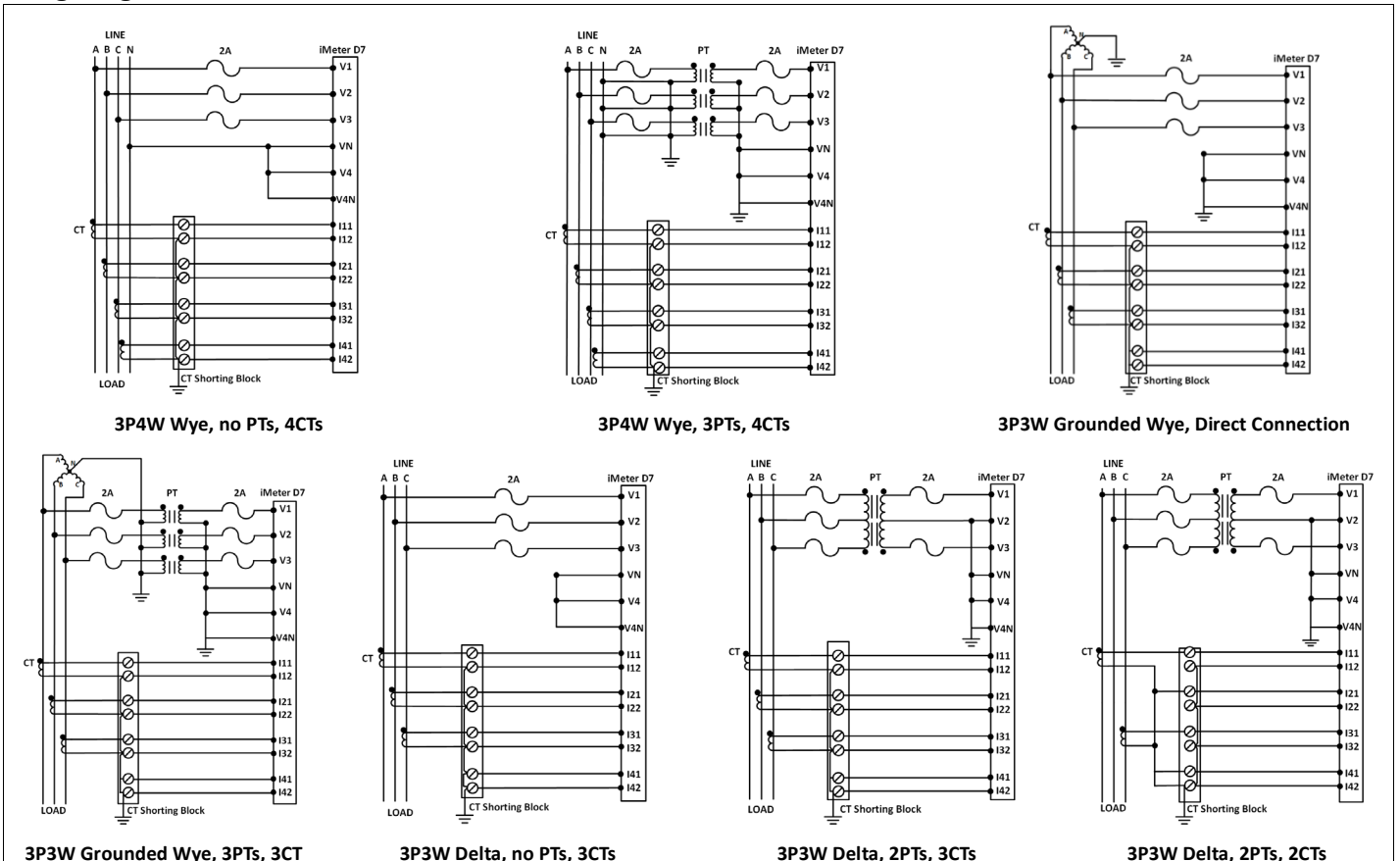
ROHS CE

Warning: 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 and Warning Label

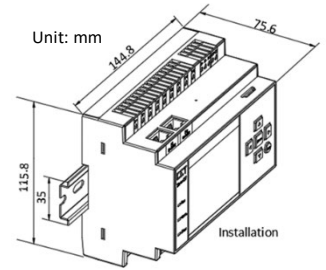
A	Antenna	G	Power Supply	M	GPS Input
B	Enclosure	H	10/100BaseT Ethernet Ports	N	RS-485 Port
C	LED Indicators	I	Current Inputs	O	Residual Current Input
D	SIM Card Slot	J	Chassis Ground	P	RTD Input
E	Buttons	K	Voltage Inputs	Q	Alarm Output
F	TFT LCD Display	L	Digital Inputs		

Wiring Diagrams



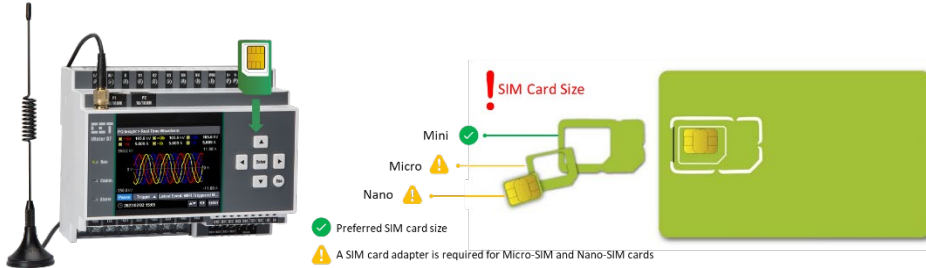
Mounting the Meter

- Pre-drill the mounting holes for the DIN rail and ensure it is already in place before installation.
- Move the installation clips at the back of the device downward to the “unlock” position.
- Align the top of the mounting channel at the back of the device at an angle against the top of the DIN rail as shown in figure right.
- Rotate the bottom of the device towards the back while applying a slight pressure to ensure that the device is completely and securely fixed on to the DIN rail.
- Push the installation clips upward to the “lock” position to secure the device on to the DIN rail.



4G Installation

Install the 4G antenna and position it in the correct location. Insert the SIM card into the slot in the direction shown in the following figure.



Using the Front Panel Buttons

The Front Panel Display allows users to view the measurements and perform basic configuration. There are five main-menus, which are **<Metering>**, **<Power Quality>**, **<PQ Insight>**, **<Events>**, and **<Setup>**. Each main menu includes multiple sub-menus for Measurements, Events or Setup Parameters. The following table provides an overview of the Front Panel Buttons under different menus. **The default password is 000001.**

Buttons	Metering / Power Quality / PQ Insight / Event Menu	Setup Menu
	The <◀> and <▶> are used for navigation between different menus on the Front Panel.	
<▲> <▼> <◀> <▶>	<p>Before a sub-menu is selected,</p> <ul style="list-style-type: none"> Press <▲> or <▼> to navigate the sub-menu list. <p>After a sub-menu is selected,</p> <ul style="list-style-type: none"> Press <▲> or <▼> to display different pages of parameters. Use <◀> or <▶> to scroll to the next tab at the top pane. In the WFR and DWR page, press <◀> or <▶> to scroll backward or forward through the waveform and <▲> or <▼> to zoom in/out of the waveform. 	<p>Before a parameter is selected,</p> <ul style="list-style-type: none"> Use <◀>, <▶>, <▲> and <▼> buttons to navigate around. <p>If a parameter is selected,</p> <ul style="list-style-type: none"> For a numeric parameter, press <▲> or <▼> to increment or decrement a numeric value. For an enumerated parameter, press <▲> or <▼> to scroll through the selection list.
<Enter>	<ul style="list-style-type: none"> Press <Enter> to enter the selected Sub-menu In Max. & Min., press <Enter> to toggle between Max. and Min. measurements. In Harmonics, press <Enter> to switch between Harmonic Spectrum, THD/TDD/CF/KF and Individual Harmonics. In Interharmonics, press <Enter> to switch between Interharmonic Spectrum, TIHD and Individual Interharmonics. In PQ Insight, press <Enter> to Pause/Refresh the WF Capture, toggle the signal selection for WF display, manually trigger WFR/DWR or view the latest event details. 	<p>Before a parameter is selected and modified,</p> <ul style="list-style-type: none"> pressing <Enter> selects a parameter for modification. <p>After a parameter is modified</p> <ul style="list-style-type: none"> pressing <Enter> saves the present value of the selected parameter into memory.
<Esc>	Press <Esc> to exit the current display.	<ul style="list-style-type: none"> Press <Esc> to cancel the current change. Press <Esc> to exit a setup page, a pop-up window will prompt to save the changes.

Basic Setup Parameters

Menu in <Setup>	Parameters	Description	Options/Range	Default
Password	Password	Enter Password	The password digits cannot be identical or sequential.	“000001”
Basic > Wiring	Mode	The Wiring Connection of the meter	DEMO/3P4W/3P3W	3P4W
Basic > PT/CT	UII Nominal	UII Nominal Voltage on the Secondary Side	1 to 1500V	415V
	I Nominal	Nominal Current	1 to 10,000A	5A
	PT Primary	PT Nominal Primary Voltage	1 to 1,000,000V	100V
	PT Secondary	PT Nominal Secondary Voltage	1 to 1500V	100V
	CT Primary	CT Nominal Primary Current	1 to 30,000A	5A
	CT Secondary	CT Nominal Secondary Current	1 to 50A	5A
Comm. > Ethernet (P1/P2)	Enable P1	Enable/Disable Ethernet P1 and select IP Addressing Mode	DHCP/Static/No	Static
	IP Address P1	Ethernet Port 1 IP Address	-	192.168.0.100
	Sub. Mask P1	Ethernet Port 1 Subnet Mask	-	255.255.255.0
	Gateway	Ethernet Port Gateway Address	-	192.168.0.1
	Enable P2	Enable/Disable Ethernet P2 and select IP Addressing Mode	DHCP/Static/No	Static
	IP Address P2	Ethernet Port 2 IP Address	-	192.168.1.100
	Sub. Mask P2	Ethernet Port 2 Subnet Mask	-	255.255.255.0
Comm. > RS-485 (P3)	Protocol	RS-485 Port Protocol	Modbus, EtherGate, Disable	Modbus
	Baud Rate	Data rate in bits per second	1200/2400/4800/9600/19200/38400bps	9600
	Parity	RS-485 Port Parity	None, Odd, Even	Even
	Stop Bit	RS-485 Port Stop Bit	1, 2	1
	Unit ID	RS-485 Port Unit ID	1-247	100