

iMeter 8 Quick Start Guide

Version 1.01

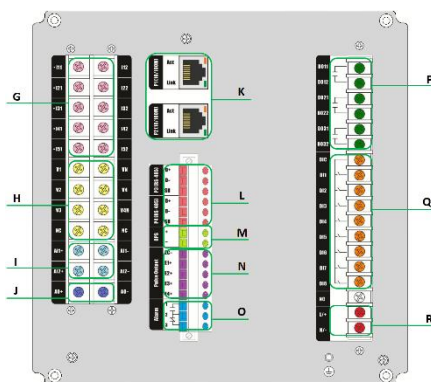
Package Contents

- iMeter 8 with all mounting brackets and plug-in connectors installed
- Factory Test Report
- CD with iMeter 8 User Manual
- Quick Start Guide (this document)

Meter Overview



Front View



Rear View – 8xDI, 4xDO, 2xAI and 1xAO

iMeter 8 1206110001

Model: iMeter 8-A5925ANAAXE

Power Supply: 95-250V $\overline{\sim}$, 47-440Hz, 12W, OVCIII

Voltage Inputs: 400V 3~L-N, 690V 3~L-L, CAT III

Current Inputs: 5A

Frequency: 50Hz

MAC Address 1: 00-A0-CC-00-20-A3

MAC Address 2: 00-A0-CC-00-20-A3

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	Mounting Bracket Slot	G	Current Input terminals	M	GPS terminals
B	Front Panel	H	Voltage Input terminals	N	Pulse Output terminals
C	TFT Color LCD	I	AI terminals	O	Alarm terminals
D	Enclosure	J	AO terminals	P	DO terminals
E	LED Indicators	K	10/100BaseT Ethernet Ports	Q	DI terminals
F	Buttons	L	RS-485 terminals	R	Power Supply terminals

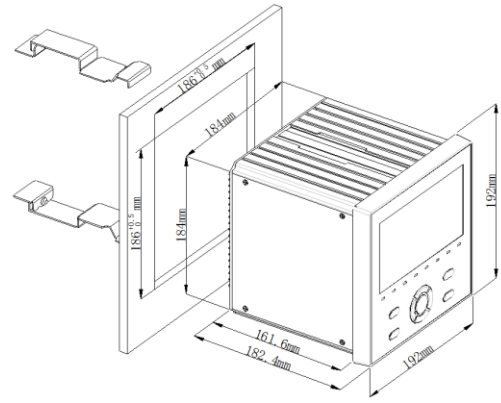
Using the Front Panel Buttons

The Front Panel Display has been designed with a 9-button user-friendly interface that allows users to view the measurements and perform basic configuration. There are five options in the **Main Menu**: **<Metering>**, **<Power Quality>**, **<PQ Insight>**, **<Event>**, and **<Setup>**. Each option includes multiple sub-menus for Measurements, Events or Setup Parameters. The following table provides an overview of the Front Panel Buttons. **The default password is 000001.**

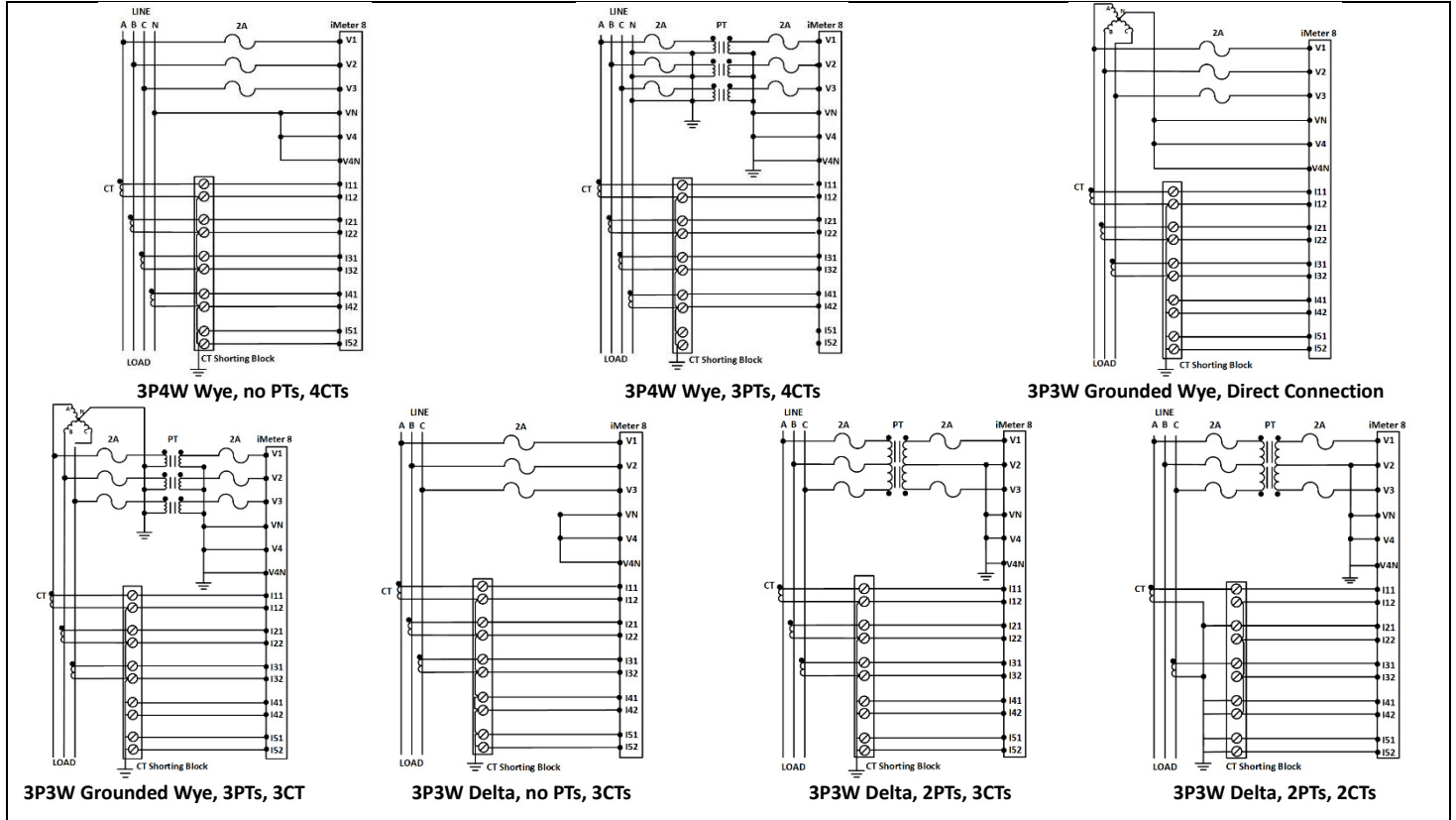
Buttons	Metering/Power Quality/PQ Insight/Event Menu	Setup Menu
<ul style="list-style-type: none"> <▲> <▼> <◀> <▶> 	<p>In the Main Menu, the <◀> and <▶> buttons are used to move the cursor between different icons (Categories). The <▲> and <▼> are ignored. The current cursor position is indicated by the highlighted Category's description.</p> <p>When inside a Category and under a particular Sub-Menu, the arrow buttons are used to navigate between Pages.</p> <ul style="list-style-type: none"> • Pressing <▲> or <▼> shifts the cursor up/down in the sub-menu column. • Pressing <◀> or <▶> moves backward or forward to display different parameters. • Pressing <▲> or <▼> scrolls the individual harmonic or interharmonic measurements from 1st to 63rd in the Power Quality/Harmonics or Interharmonic sub-menu. • In the WFR page, using <◀> or <▶> to select the target area and pressing <▲> or <▼> to zoom in or out of the waveform. 	<ul style="list-style-type: none"> • Before a parameter is selected, use the <◀>, <▶>, <▲> and <▼> buttons to navigate around and select the desired parameter for modification. • If a numeric parameter is already selected, pressing <▲> or <▼> increments or decrements a numeric value. • If an enumerated parameter is already selected, pressing <▲> or <▼> goes back or advances to last or next enumerated value in the selection list.
<Reset>	Pressing this button resets the LED indicators.	
<Home>	Pressing this button goes back to the main page.	
<Enter>	<ul style="list-style-type: none"> • Before a Category/Sub-menu or operation is selected, pressing <Enter> enters the highlighted Category/Sub-menu or execute the chosen operation. • In the Metering/RMS or Metering/Fundamental summary page, press <Enter> to refresh or freeze the screen. • When in a record or event page, e.g. an EN50160 record page, press <Enter> to display the details page. 	<ul style="list-style-type: none"> • After changing the parameter, pressing <Enter> saves the new setting into memory.
<Fn>	<ul style="list-style-type: none"> • When inside a data display page, pressing <Fn> switches between the Large Font and Summary page. • In the Metering/Max., Metering/Min. or Power Quality/2-150kHz C.E. page, use the <Fn> button to scroll between pages to show the different parameters.. 	N/A
<Esc>	<ul style="list-style-type: none"> • Pressing <Esc> returns to the previous level menu or page. 	<ul style="list-style-type: none"> • Pressing <Esc> cancels the entered value.
<Fn> + <Enter>	Press this key combination to capture the current screen.	

Mounting the Meter

- Remove the mounting brackets from the meter
- Fit the meter through a 186mmx186mm cutout
- Re-install and tighten the mounting brackets against the panel to secure the meter



Wiring Diagrams



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	3P3W/3P4W/DEMO	3P4W
Basic > PT/CT	ULL Nominal	ULL Nominal Voltage on the Secondary Side	1 to 1,500V	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 1,500V	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 Ethernet Port 1	Yes/No	Yes
	IP Addr. 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 Ethernet Port 2	Yes/No	Yes
	IP Addr. 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&P4)	Protocol	RS-485 Ports Protocol	Modbus, EtherGate, None	Modbus
	Baud Rate	Data rate in bits per second	1200/2400/4800/9600/19200/38400bps	9600
	Parity	RS-485 Ports Parity	None, Odd, Even	Even
	Stop Bit	RS-485 Ports Stop Bit	1, 2	1
	Unit ID	RS-485 Ports Unit ID	1-247	100/101
	EtherGate IP Port	EtherGate IP Port	20000 to 60000	20000/20001