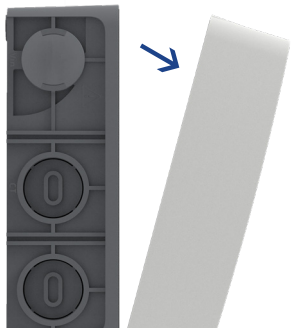
Power Meter Quick Start Guide

Preparing for Install

Steps

3/12 Load

48 Load



Remove meter from box → Flip open dust cover Pull down on tabs → Pull front cover forward → Insert screwdriver into slot → Pivot screwdriver up to remove main assemble

What's in the box

CT connector kit

Mounting screws

Wall anchors

Cable ties

Cal. Cert.

This quick-start guide provides an overview of the safety and installation requirements for the Setra Power Meter product family. Please refer to the full installation and operation manual for details on all features of the meter.

Safety Information

Denotes warning or caution. See manual for a description of the meanings.

DENOTES HIGH VOLTAGE. RISK OF ELECTRICAL SHOCK. LIFE THREATENING VOLTAGES MAY BE PRESENT. QUALIFIED PERSONNEL ONLY.

Equipment protected throughout by double insulation (IEC 536 Class II).

Contains additional information pertinent to current subject.

RoHS

WARNING

DO NOT EXCEED 347V Line to Neutral or 600V Line to Line. This meter is equipped to monitor loads up to 347V L-N. Exceeding this voltage will cause damage to the meter to the meter and danger to the user. Always use a Potential Transformer (PT) for voltages in excess of 347V L-N or 600V L-L. The Setra Power Meters are 600V Over Voltage Category III device.

To avoid electrical shock or fire:

- Review the entire manual before use of the Meter and its accessories.
- Comply with local and national safety codes. Use personal protective equipment to prevent shock and arc flash injury where hazardous live conductors are exposed.
- Only qualified electrical workers should install this equipment. Such work should be performed only after reading the full installation and operation manual.
- The equipment must be accessible to authorize personnel only. Equipment must be installed in areas where access can be restricted.
- If the meter appears damaged or defective or internal fuse brownout, first disconnect all power to the meter. Then contact Setra technical support for assistance.

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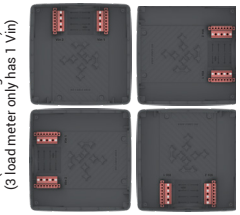
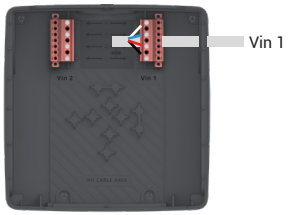
Installation Overview

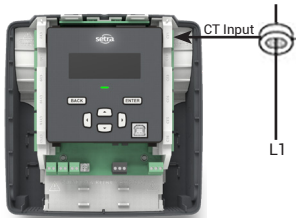
⚠ *Prior to installation, the full installation and operation manual are accessible by powering up the meter through USB cable and accessing the help section on the web portal or by visiting www.setra.com*

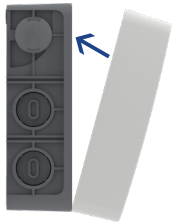
3 & 12 Load meter

(12 load housing shown)
(3 load meter only has 1 Vin)









1. Mount unit in preferred conduit orientation with provided mounting screws.

⚠ 2. After safely de-energizing the circuit, properly wire in the lines voltage per local electrical codes.

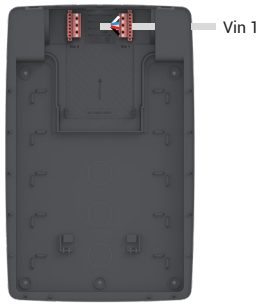
⚠ 3. Install the "Main assembly" into the back housing until it locks in place.

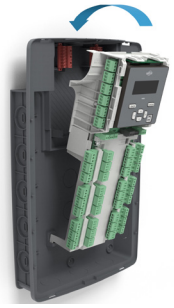
⚠ 4. Following local electrical codes. Wire in the current transformers and communication lines to the meter.

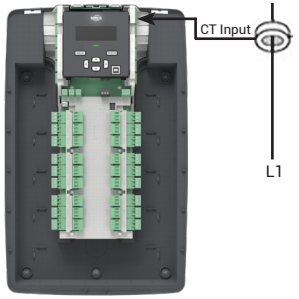
5. Install front cover by engaging the two tabs at the bottom and rotate the cover until clicked in-place.

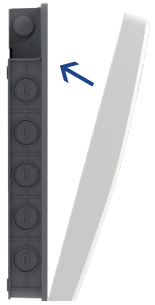
⚠ 6. After meter is fully wired, safely re-energize the circuit and begin gathering data.

48 Load meter

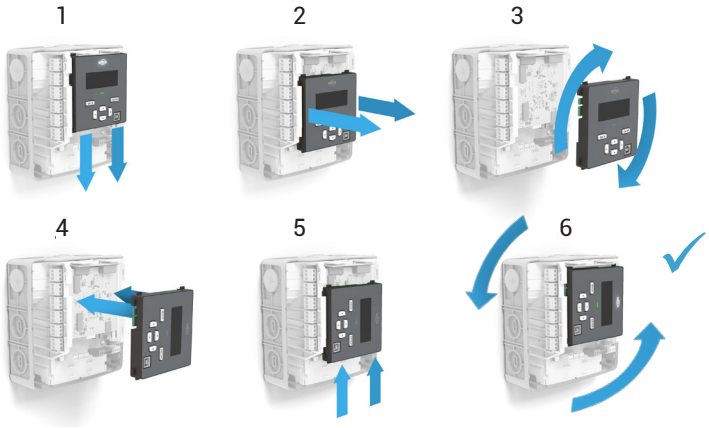








Choosing conduit position
(rotate the display)



Conduit location now in the preferred orientation

CT wiring guide

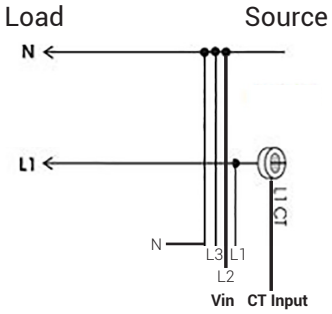
Split core CT's
White: + Black: -

Rogowski CT's
Red: + Black: -
Bare wire: shield

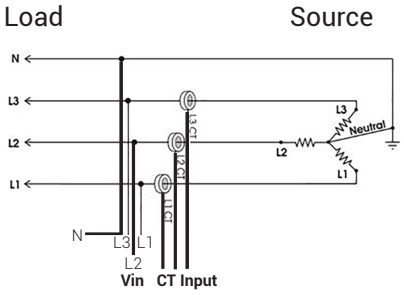
Polarity
Arrow points towards the load

Meter wiring example

2-wire, Single Phase



4-wire wye, 3 Phase



For additional wiring diagrams please refer to full manual.

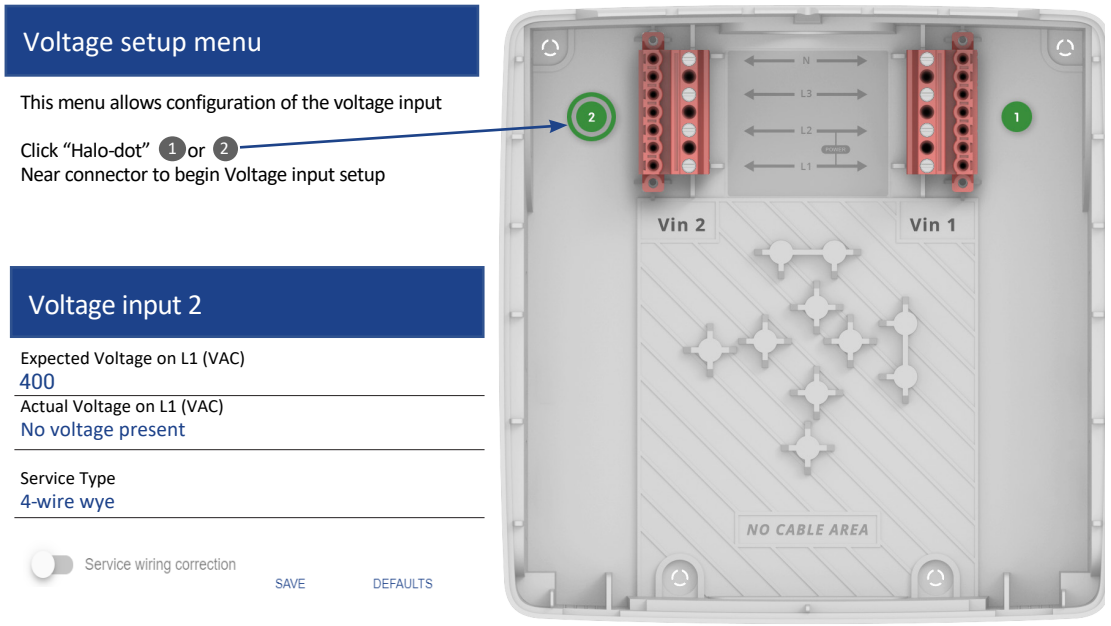
Configuring the meter

Connecting the meter to the PC

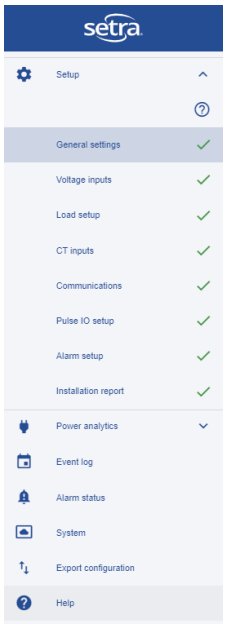
1. Connect meter to USB cable
2. Open up web browser on your PC
3. Type http://10.10.5.2 into browser address bar
4. Complete meter setup to desired configuration and upload to meter

Note: Meter can be powered safely via 5VDC from PC or by line voltage. Meter setup can be completed pre or post site installation. Full manuals can be downloaded from web portal for more details.

How the "Halo-dot" works



Navigating the meter



General Settings → **Voltage inputs** → **Load setup** → **CT inputs** → **Communication** →

- Global meter settings
- Meter identification
- Pin-code protection

- Define input voltage
- Wiring configuration
- Step down PT settings

- ID measured loads
- Define CT grouping
- Define voltage input

- Select CT type
- CT polarity correction
- Copy/paste CT type

- BACnet/IP
- BACnet MS/TP
- Modbus TCP
- Modbus RTU

Pulse I/O → **Alarm setup** → **Installation report** → **Collect data**

- Enable pulse I/O
- Define pulse type
- Define scaler & width

- Select alarm type
- Define alarm thresholds
- Define alarm indication

- Configuration record
- Initial meter readings
- Site/installer information

- Send data to EMS/BAS
- Locate energy losses
- Save energy

Visit www.setra.com\power-meter for full user guide and installation manual or call +1 978.263.1400 for technical support or email techsupport@setra.com