

# ENCST40

**COMPACT POWER AND ENERGY  
METER IN ENCLOSURE**



- For Retrofit Meter Solutions
- Add Metering Without Needing to Modify Existing Switchgear Panels
- RS485, RJ45 Ethernet, or BACnet/IP Communication
- Pre-wired and Configured for Use with 0.333 V CTs
- NEMA Type 1 Rated Wall Mount Enclosure
- Eliminates Wiring and Installation Errors



# Introduction

Add metering without expensive and time consuming redesign with EIG's ST40 compact power and energy meter in enclosure. Simply mount the enclosure in any convenient location, next to your switchgear or on a wall, and you are ready to go, with no downtime. This is a perfect solution for a retrofit where there is no metering compartment available.

The streamlined NEMA 1 rated wall mount enclosure is only 7.40 inches wide, so it fits easily into tight spaces. The enclosure is factory wired with the meter installed. Standard equipment includes UL listed, finger-safe voltage fuses. The meter is wired for mV CTs and works directly with power systems up to 300 V L-N. Optional 0.333 V CTs can be ordered from EIG's webstore.

Use the ST40 meter in enclosure to transmit metering data using a variety of communication protocols. The meter has a standard micro-USB front port for data downloads and programming. The enclosure can be ordered with an RS485 serial port communicating Modbus RTU and DNP3, an

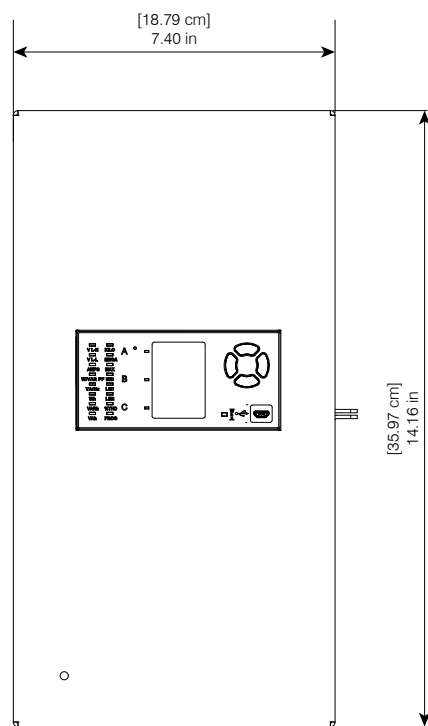
RJ45 Ethernet port communicating Modbus TCP/IP, or an RJ45 Ethernet port communicating BACnet/IP. The BACnet communication option allows the ENCST40 to fit seamlessly into existing building automation systems.

Additional ST40 meter features include:

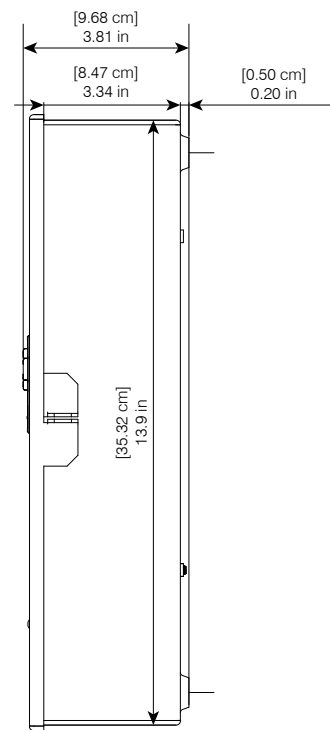
- ANSI C12.20 0.2 Accuracy Class.
- Three line, bright red LED display that auto scrolls meter readings. You can also use the display to easily program the meter.
- Power Quality features that include harmonic analysis and 512 samples/cycle waveform recording.
- Extensive memory for load profiling, system events, and limits/alarms.



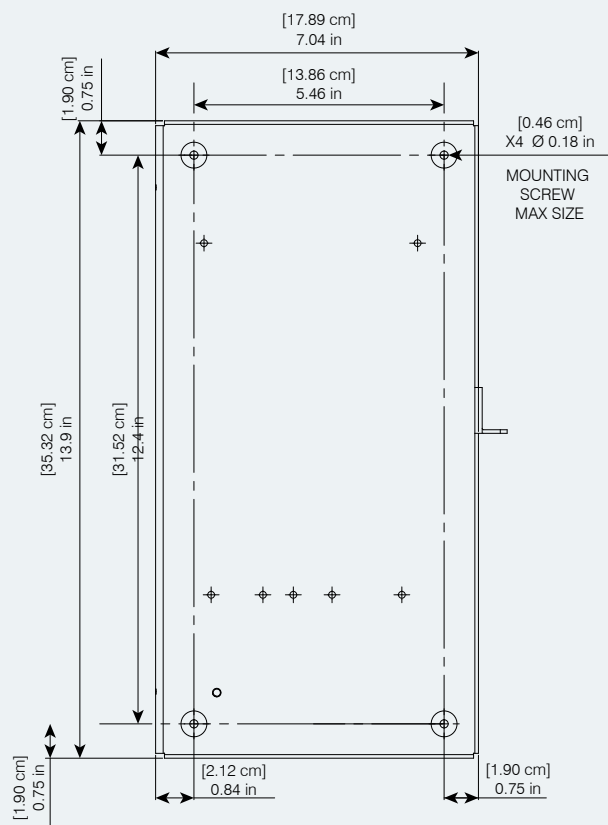
# Dimensional Drawings



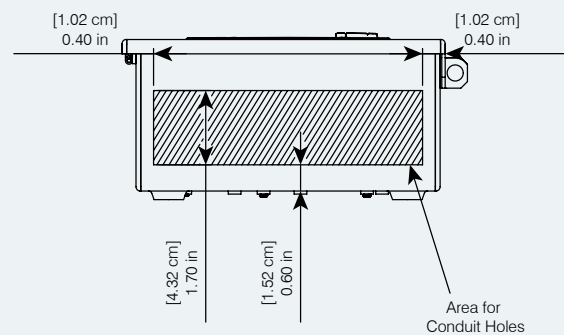
FRONT DIMENSIONS



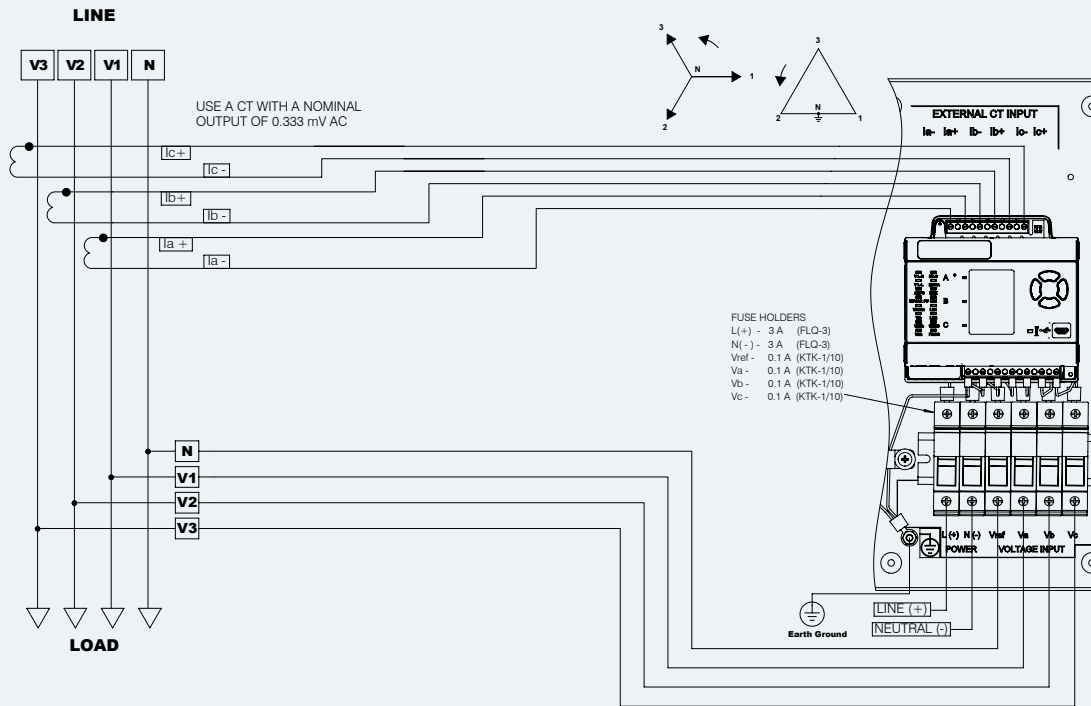
SIDE DIMENSIONS



MOUNTING DIMENSIONS



BOTTOM DIMENSIONS



**WIRING DIAGRAM - WYE/Delta, 4-Wire with No PTs, 3 CTs**  
**IMPORTANT!** ONLY connect the current inputs to 0.333 V CTs.

**Ordering Information** - All fields must be filled in to create a valid part number.

|                        | Model                                       | Frequency                 | Current Input              | V-Switch™ Pack                                    | Communication                     |
|------------------------|---|---------------------------|----------------------------|---|-----------------------------------|
| <b>Option Numbers:</b> | -   | -                         | -                          | -   | -                                 |
| <b>Example:</b>        | ENCST40                                     | 60                        | mV                         | V1  | RS485                             |
|                        | <b>ENCST40</b><br>(ST40 Meter in Enclosure) | <b>50</b><br>50 Hz System | <b>mV</b><br>0.333 V Input | <b>V1</b><br>Multifunction Meter Only             | <b>RS485</b><br>RS485 Serial Port |
|                        |   | <b>60</b><br>60 Hz System |                            | <b>V2</b><br>Standard Datalogging Memory          | <b>INP10</b><br>BACnet/IP Port    |
|                        |   |                           |                            | <b>V3</b><br>Power Quality Harmonics              | <b>INP10B</b><br>BACnet/IP Port   |
|                        |   |                           |                            | <b>V4</b><br>Limits and Control                   |                                   |
|                        |   |                           |                            | <b>V5</b><br>64 Samples/Cycle Waveform Recording  |                                   |
|                        |   |                           |                            | <b>V6</b><br>512 Samples/Cycle Waveform Recording |                                   |

Visit EIG's web store for 0.333 V CT options: [www.electroind.com/shop](http://www.electroind.com/shop)

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