Product Data

E50 Series Compact Power and Energy Meters

For use with Split Core/Solid Core CTs

Data Sheet

E50H2-T2 BACnet

Ordering Numbers:	**Description:**
X13690276002	E50H2-T2 BACnet

November 2025

BAS-PRD035D-EN

TRANE TECHNOLOGIES

Introduction

Trademarks

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Revision History

Obsoleted Modbus Energy Meters.

Product Data

Overview

The E50 Series DIN Rail Meter combines exceptional performance and easy installation that delivers a cost-effective solution for power monitoring applications. BACnet (E50H2-T2) output model offer added flexibility for system integration.

Features

- Revenue Grade measurements.
- Used in applications such as energy monitoring, building automation systems (BAS), energy management, commercial sub-metering, industrial monitoring, and cost allocation.
- High reliability with ANSI C12.20 0.2% accuracy, IEC 62053-22 Class 0.2S.
- DIN rail or screw mounting option for easy installation.
- Adding to its versatility, the E50 models have a wide input range between 90-600 Vac, which alleviates the need to keep multiple models in stock.
- Compatible with current transducers (CTs) that range from 5 A to 32000 A for a wide range of service types.
- User-enabled password protection, which offers protection from tampering.
- System integration via BACnet MS/TP (E50H2-T2); compatible with existing systems.
- Native BACnet MS/TP support (no gateway) with serial rates up to115.2 kpbs (E50H2-T2).
- BTL-certified (E50H2-T2).
- Additional pulse inputs (E50H2-T2 only) provide an easy way to incorporate simple flow sensors to track gas, water, steam, or other energy forms using a BACnet system.

Specifications

Table 1. Specifications

Accuracy	
Real Power and Energy:	0.2% (ANSI C12.20, IEC 62053-22 Class 0.5S)
Inputs	
Control Power, AC:	• 50/60 Hz; 5 VA max.; 90 V min. • UL Maximums: 600 VL-L (347 VL-N) • CE Maximum: 300 VL-N
Control Power, DC:	• 3W maximum • U.L. and CE: 125 to 300 Vdc (external dc current limiting required)
Voltage Input	• U.L.: 90 VL-N to 600 VL-L • CE: 90 VL-N to 300 VL-N
Current Input	
Scaling	5 A to 32,000 A
Input Range:	0 to 0.333 V or 0 to 1 V (selectable) CT must be rated for use with Class 1 voltage inputs
Pulse Inputs (E50H2-T2):	Contact inputs to pulse accumulators (10 kW Vac/dc to 4 to 10 Vdc)
Outputs	
E50H2-T2:	RS-485 2-wire BACnet MS/TP (9600 baud to 115.2 kbps)
Mechanical	
Mounting:	DIN Rail or 3-point screw mount
Environmental	

Table 1. Specifications (continued)

Altitude of Operation:	3000 m
Operating Temperature Range:	-30 to 70 °C (-22 to 158 °F)
Storage Temperature Range:	-40 to 85 °C (-40 to 185 °F)
Humidity Range:	<95% RH non-condensing; indoor use only
Certifications	
Agency Approvals:	UL508 (Open Type Device), EN61010-1, California CSI Solar, ANSI C12.20, Cat III, pollution degree 2
Warranty	
Limited Warranty:	5 Years

Ordering Information

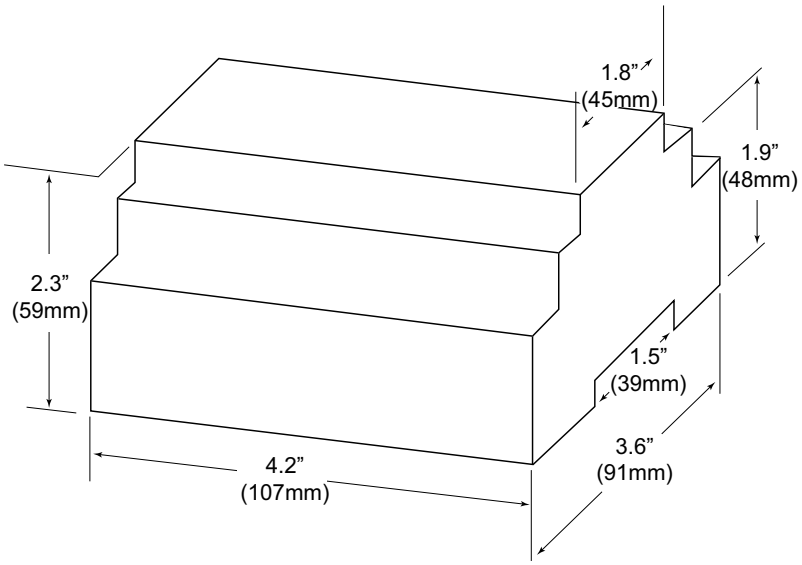
Table 2. Ordering information

Descriptions and Models	E50H2-T2
Measurement Capability - Full Data Set	
Power (3-Phase Total and Per Phase): Real (kW) Reactive (kVAR), and Apparent (kVA)	X
Power Factor: 3-Phase Average and Per Phase	X
Present Power Demand: Real (kW), Reactive (kVAR), and Apparent (kVA)	X
Peak Power Demand: Real (kW), Reactive (kVAR) and Apparent (kVA)	X
Current (3-Phase Average and Per Phase)	X
Voltage: Line-Line and Line-Neutral (3-Phase Average and Per Phase)	X
Frequency	X
ANSI C12.20 0.5% Accuracy, IEC 62053-22 Class 0.2S	X
Accumulated Net Energy: Real (kWh), Reactive (kVARh), and Apparent (kVAh)	X
Accumulated Real Energy by Phase (kWh)	X
Demand Interval Configuration: Fixed or Rolling Block	X
Demand Interval Configuration: External Sync to Comm	X
Outputs	
Alarm Output (N.C.)	X
1 Pulse Output (N.O.)	—
RS-485 Serial (BACnet MS/TP Protocol)	X
Inputs	
1 Pulse Contact Accumulator Input	X
CE Mark	
The CE mark indicates RoHS2 compliance. See CE Declaration of Conformity for additional details.	

Note: *BTL Only for E50H2-T2*

Dimensions

Figure 1. Dimensions



Mounting Diagrams

Figure 2. DIN mount configuration

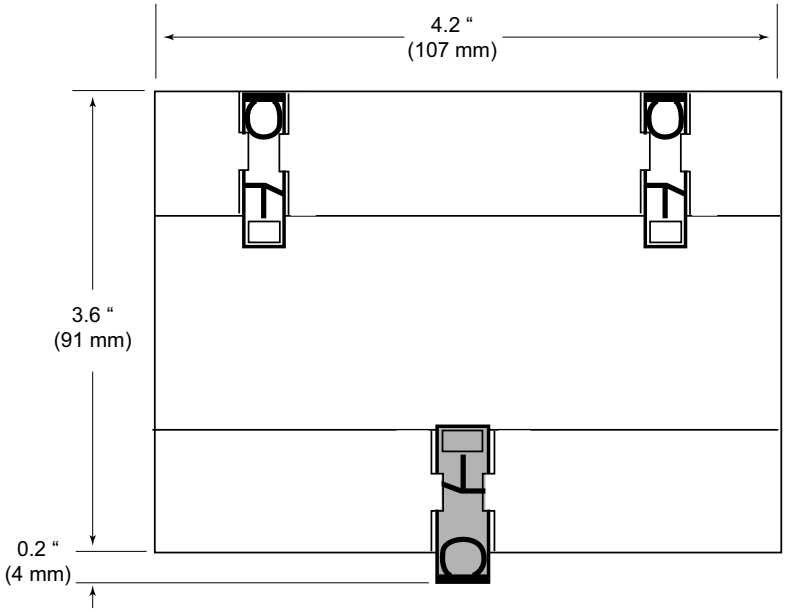
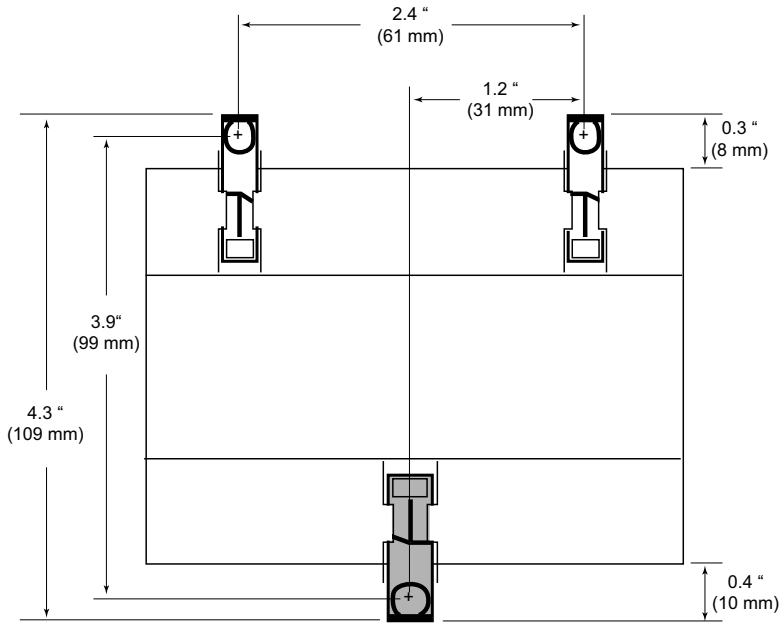


Figure 3. Screw mount configuration



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