

VerifEye® Series 7000 Virtual Element Meter 48 Circuit (24 Virtual Meters)



Series 72D48 Embedded -
With Display



Series 73D48



72D48-N4X



Solid Core CT



Split Core CT



Hinge Split
Core CT



Rogowski
Rope CT

Description

The VerifEye® Series 7200 and 7300 Virtual Element Advanced Branch Circuit Monitors are a cost-effective solution for electrical load management. The Series 7200 and 7300 platform is ideal for high density, branch circuit monitoring applications in both new construction and retrofit applications. The Series 7200 and 7300 monitors up to 48 branch circuits with one single meter board.

The Series 7200 and 7300 supports all industry standard communications over RS485 and Ethernet, including Modbus RTU, Modbus TCP. The integrated USB port may be used for local configuration.

The Series 7200 and 7300 monitor current, voltage, instantaneous power and demand and energy consumption of each circuit in a panelboard including the main feed. As a circuit approaches the user-configured threshold, alarm indicators are triggered, preventing costly downtime from overloaded circuits or failed loads.

Applications

Use the VerifEye Series 7200 and 7300 Advanced Branch Circuit Monitor in commercial and industrial applications for:

- Data centers
- Tenant energy monitoring
- Energy allocation
- Energy management
- Load monitoring
- Building code compliance

Features

- 48 individual Current Transformer (CT) inputs
- Inputs configurable as follows:
 - 24 virtual meters in any combination of single-phase, two-phase, or three-phase limited to the total 48 CT inputs
 - Consult factory for any other configurations
- Line powered from 90-600V, phase-to-phase
- Bidirectional monitoring
- Meets ANSI & IEC metering system accuracy requirements including branch CTs
- Supports solid core, split core, and Rogowski CTs
- Meter board features:
 - Easy access terminals for CT wiring, removable connectors
- Reports volts, amps, power, demand and energy for each circuit—each Series 7200 and 7300 covers a complete 42 breaker panelboard plus mains for a total of 48 circuits
- User-configurable alarm thresholds register for improved load management
- Selectable phase orientation and number of circuits
- Limited 5-year warranty

Measured Parameters*

- Volts
- kW
- aPF
- kWh

* All parameters for each phase and system total

NOTE: Factory commissioning on the Series 7200 and 7300 Meters is highly recommend as remote configuration of the meters is not an option offered by Leviton Technical Support.

Accuracy

- 0.2% ANSI C12.20-2010 Class 0.2

Wide Range Power

- 90-347 Volts AC Line-to-Neutral
- 600V Line-to-Line, CAT III
- One voltage reference input

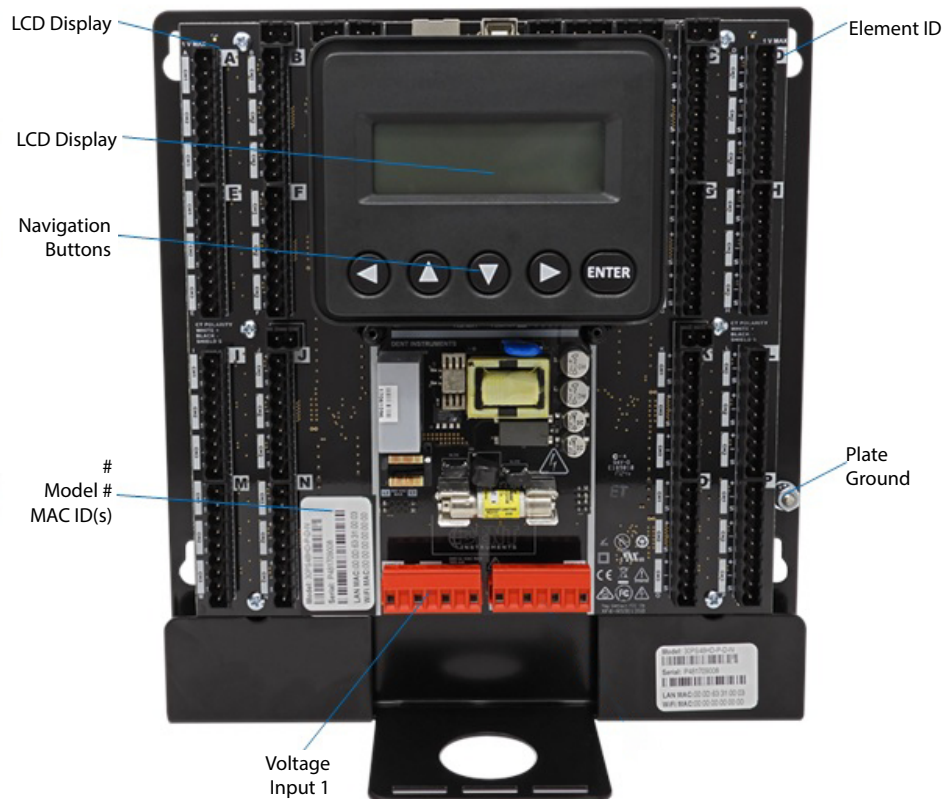
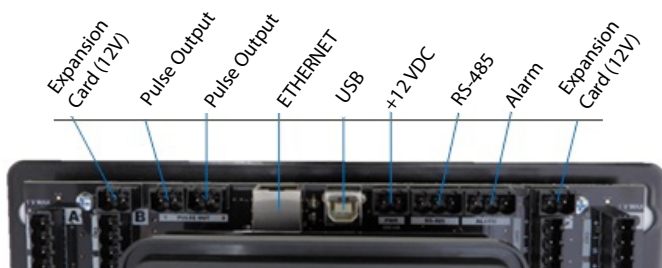
Highly Configurable

- 1P/2W, 2P/3W, 3P/4W (WYE), 3P/3W (Delta)

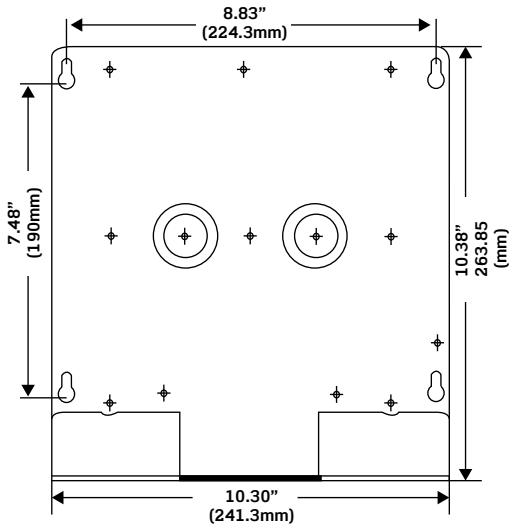
User Interface Options

- Meter front panel display unit
- Virtual Element Viewer software with either
- USB direct to the meter or PC/Ethernet

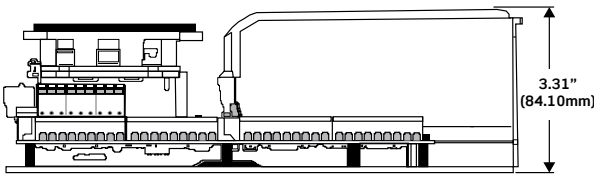
Panel Features



Series 7200 Dimensions

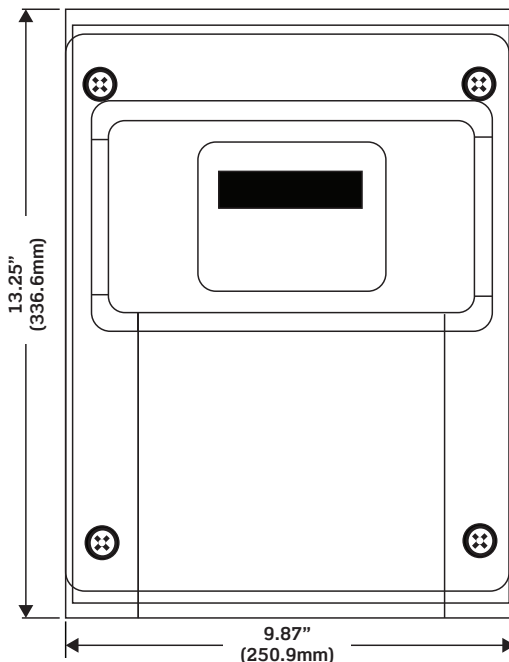


Series 7200 Embedded (Panel Mount)

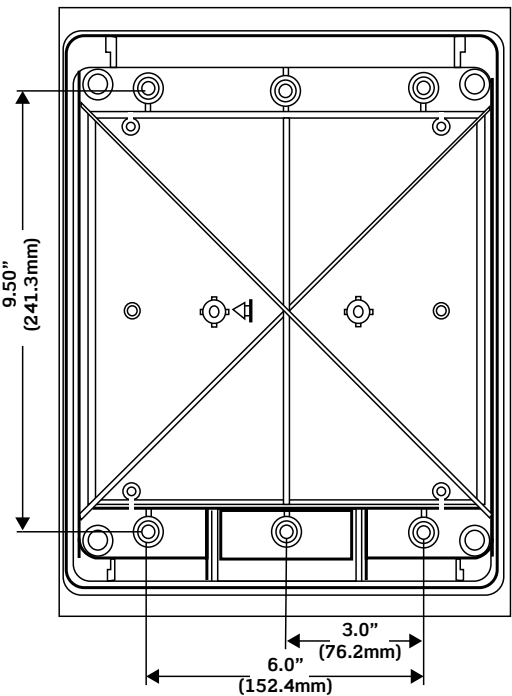


Series 7200 Embedded (Panel Mount)

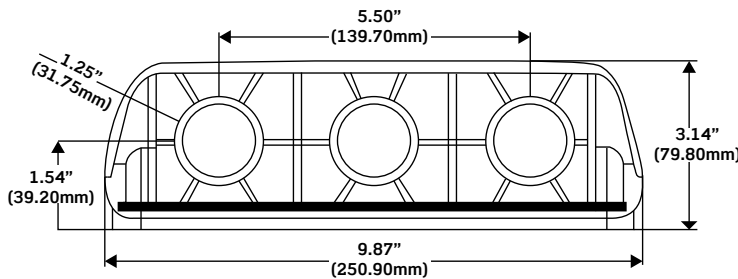
Series 7300 Dimensions



Series 7300 Enclosure Front

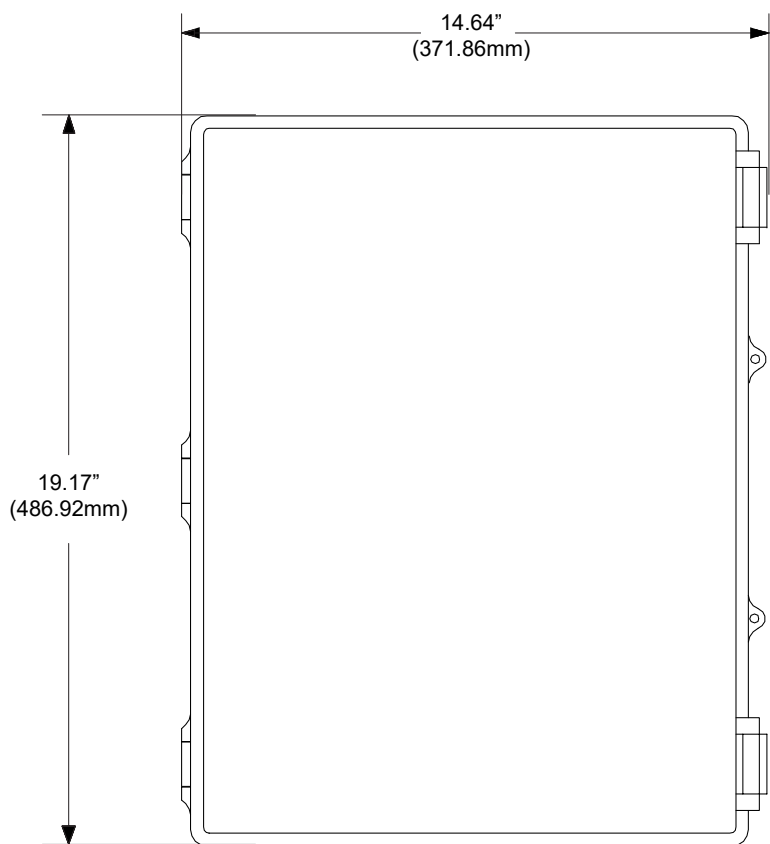


Series 7300 Enclosure Back

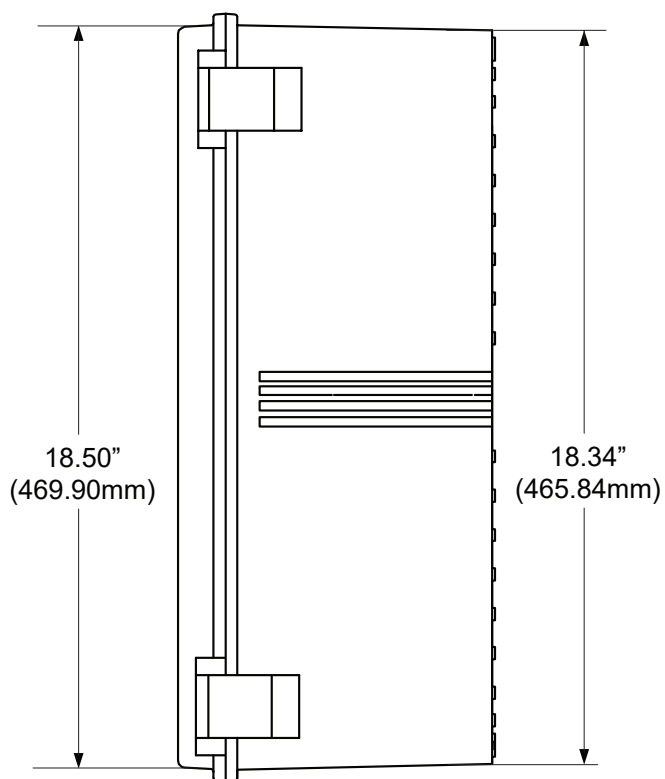


Series 7300 Enclosure Bottom

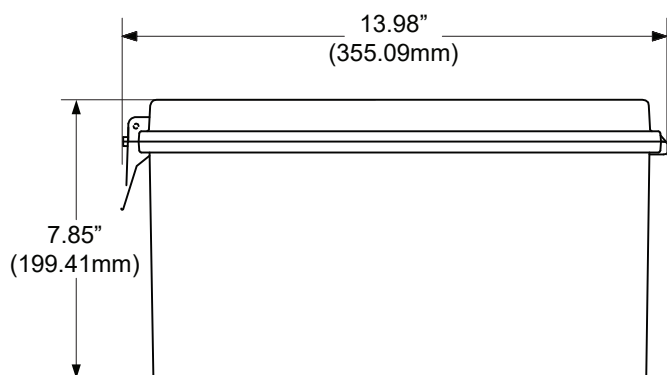
Dimensions - 72D48-N4X



Front View



Side View



Top View

Specifications

Panelboard Monitoring System

Electrical

Service Type	1P/2W, 2P/3W, 3P/4W, 3P/3W (Delta)
Power	From L1 Phase to L2 Phase, 90-600VAC RMS CAT III 50/60Hz, 500mA AC Max
AC Protection	0.5A Fuse 200kA interrupt capacity
Power Out	Unregulated 12VDC output, 200mA, self-resetting fuse
Voltage Channels	90-346 Volts AC Line-to-Neutral, 600V Line-to-Line, CAT III
Current Channels	48 channels, 0.525 VAC max, 333 mV CTs, 0-4,000+ Amps depending on CT
Maximum Current Input	150% of current transducer rating (mV CTs) to maintain accuracy. Measure up to 4000A with Rogowski Coil CTs.
Measurement Type	True RMS using high-speed Digital Signal Processing (DSP) with continuous sampling
Line Frequency	50/60Hz

Mechanical

Wire Connections	12-22 AWG 600 VAC, voltage connection must be #14 AWG or larger & 600 VAC rated
Mounting	Panel Mount/Enclosure
High Voltage Cover	IP30
PCBA Mounting	0.5" standoffs #6 (quantity 6, user supplied)
Mounting Plate	Available with Series 7200 models

Communications

Hardware	RS-485, Ethernet and USB (for configuration only)
Supported Protocols	Modbus RTU, Modbus TCP
Max Distance	Modbus RTU - 1200 meters (4000 ft) max, other network protocols follow standard network management practices

Environmental

Operating Temperature	-4° to 140°F (-20° to 60°C) At -4°F, LCD display could be illegible, meter voltage at -4°F must exceed 100 VAC to power the meter
Operating Humidity	5-95% non-condensing

Codes & Standards

Accuracy & Billing	ANSI C12.20 Class 0.2, NIST traceable calibration
Certifications	UL Recognized(E186827): Applies to mounting plate and circuit board only version, conforms to UL Standard 61010-1 3rd edition, certified to CSA Standard C22.2 No. 61010-1 3rd edition UL Listed (E186827): Applies to indoor enclosure version, conforms to UL Standard 61010-1 3rd edition, certified to CSA Standard C22.2 No. 61010-1 3rd edition
Listing/Safety	CE EN 61000-6-4: Class A

Other

Enclosure Dimensions	13.25" L x 9.87" W x 3.14" D (336.6mm x 250.90mm x 79.80mm)
Panel Mount Dimensions	10.38" L 9.5" W 3.14" D (263.90mm x 241.3mm 79.80mm)

Ordering Information

Series 7200 & 7300 Meters		
Cat. No.	Description	
72D48-000	Series 7200 Embedded Panel Mount (no enclosure) Branch Circuit Monitor, 48 inputs, LCD display	
73D48-000	Series 7300 Branch Circuit Monitor, 48 inputs, LCD display, NEMA 1 enclosure	
VerifEye UL508A Configured Panel Solutions		
Cat. No.	Description	
72D48-N4X	VerifEye 72D48 S7000 Virtual Element 48 input Meter (NEMA 4X Enclosure)	
Compatible CT Options*		
Cat. No.	Description	Accuracy
CDV01-W15	Solid Core CT, 333mV:100A, 0.60"	0.2%
CDV02-W20	Solid Core CT, 333mV:200A, 0.78"	0.2%
CTV5X-WA4	Hinged Split Core CT, 333 mV: 50A, .40" Window	0.5%
CTV01-KD0	Split Core CT, 333mV:100A, 1" Window	0.5%
CTV01-WC9	Hinged Split Core CT, 333 mV: 100A, .94" Window	1.0%
CTV02-KD0	Split Core CT, 333mV:200A, 1" Window	0.5%
CTV02-WC9	Hinged Split Core CT, 333 mV: 200A, .94" Window	1.0%
CTV04-KD1	Split Core CT, 333mV:400A, 1.25" Window	1.0%
CTV04-WD5	Hinged Split Core CT, 333 mV: 400A, 1.42" Window	1.0%
CTV08-KG1	Split Core CT, 333mV:800A, 3.0"x3.5" Window	1.0%
CRV50-LR2	5-4000A Rogowski Coil CT 16", 4.5" Inner Coil Diameter, 131mV/1000A @ 60Hz, 109.2mV/1000A @ 50Hz	<0.6% accuracy
CRV50-LR4	5-4000A Rogowski Coil CT 24", 7.65" Inner Coil Diameter, 131mV/1000A @ 60Hz, 109.2mV/1000A @ 50Hz	<0.6% accuracy

*Series 7000 Branch Circuit Monitors are compatible with 333mV CTs, sold separately

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Visit our Website at: www.leviton.com/verifeye

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LES-G-10562E/C26-mm
REV MAR 2026