VerifEye™ Series 8000 Meter
Multiple Point High Density Smart Meter

Description
The VerifEye™ Series 8000 Multiple Point Meters are designed to meter multi-tenant office buildings, medium-sized retail, institutional, multi-tenant residential and other high density applications. VerifEye Series 8000 meters provide 24 meter elements that are configured as 1 phase, 2 phase or 3 phase meters or monitors.

VerifEye Series 8000 meters combine revenue-grade electrical submetering with building automation communications technology, complying with all regulatory electric safety and communications requirements and meeting stringent ANSI 0.5 Accuracy Class standards.

VerifEye Series 8000 meters transmit data over ModBus and BACnet connections to form an open protocol network.

Please note: Factory commissioning on the Series 8000 Meter is highly recommended as remote configuration of the meter is not an option offered by Leviton Technical Support.

Features
- Building automation integration and tenant metering
- Multiple point meter—installation and hardware-savings
- Provides multiple electric loads in one device
- Monitors up to 24 current transformers—(8) 3-phase, (12) 2-phase or (24) 1-phase loads
- Current transformers available in 100A to 5,000A
- ModBus TCP, ModBus RTU (RS-485) and BACnet IP standard feature
- Measures kilowatt hours, kW demand, volts, amps
- Interval and net metering
- Configurable via Ethernet or simple ModBus RTU network to BMS or VerifEye software solutions for tenant billing or measurement & verification (M&V)
- Five year warranty
- Use Leviton 0.1A CTs with the Series 8000 Meter—see the Current Transformer Data Sheet for part numbers and details
- California Weights and Measures

Leviton Manufacturing Co., Inc. Lighting & Controls
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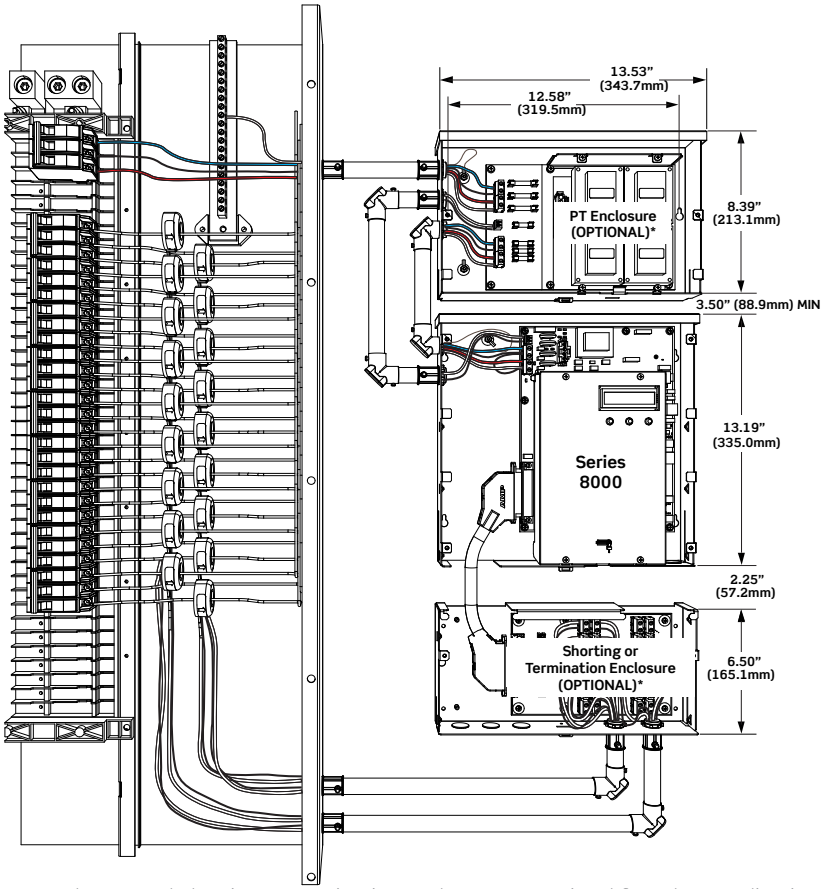
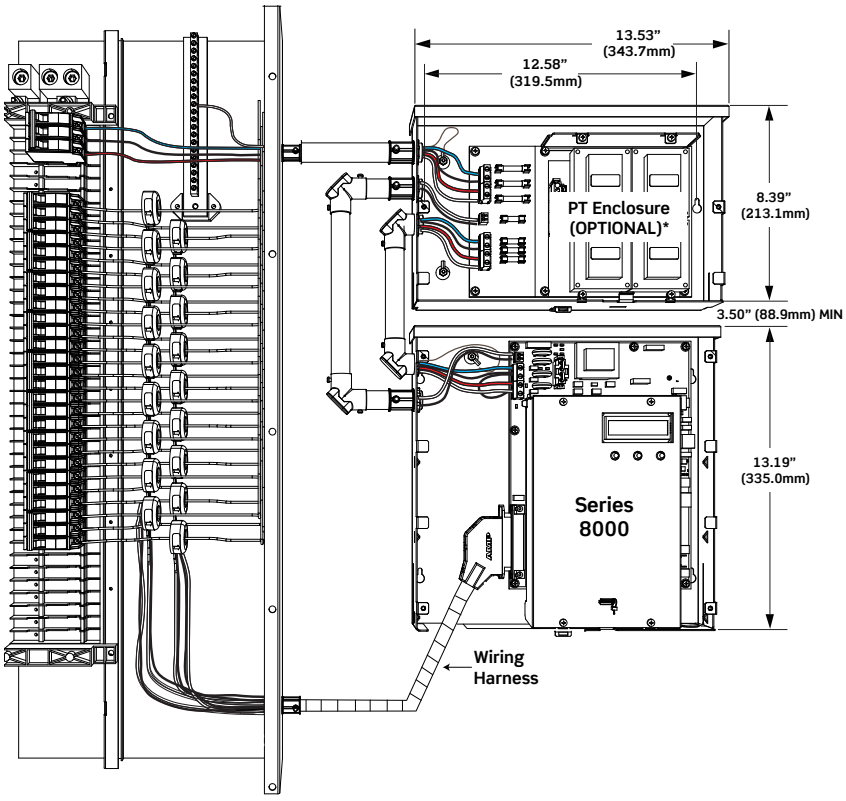
Dimensions - Terminal Enclosure



* PT Enclosure and Shorting or Termination Enclosure are optional for select applications.

Dimensions - Wiring Harness



Specifications

Communications	
Protocols	ModBus TCP/IP, DHCP, HTTP, PPP, SNTP, FTP, ModBus TCP, ModBus RTU (RS-485), BACnet IP
Voltage	
Reference Voltage	120/208V, 120/240V, 240/416V, 277/480V (+/- 10%), 60Hz Note: Meter requires 120V power for operation (Higher voltage supported with potential transformers)
M&V	
Service Type	Single, Poly & 3-Phase + Neutral
Accuracy	ANSI C12.20 0.5 Accuracy Class, IEC 62053-22 Class 0.5S
Measurements	Wh delivered and received, VARh delivered and received, VAh, Vrms, Irms
Demand Interval	5 to 60 minutes
Compatibility	2 Pulse inputs to collect data from electric, water and/or gas meters
Ports	Single 10/100BASE-T Ethernet, RS-232
BAS Protocols	ModBus TCP, ModBus RTU (RS485), BACnet/IP
AMR File Type	Human Readable CSV file
Frequency	Configurable; real-time, hourly, or daily reporting
Pulse Inputs	2 pulse in terminal blocks (2 wire) compatible with dry form A and solid state form A contacts
On-Board Memory	Non-volatile flash memory is unaffected by power outages; holds up to 2.4 years of meter data (1 hour intervals) for 20 years
On-Board Clock	Real-time with battery back-up (holds time up to 10 years)
Physical	
Weight	14 lbs (6.35kg), 21 lbs (9.52Kg)
Size	13” (33cm) H x 11.8”(16.9”) (30.5 cm) W x 2” (5cm) D
Enclosure	For indoor use only
Display	Liquid crystal with button scroll
Environment	
Operating Temperature	-40 to 158° F (-40 to 70° C)
Operating Humidity	0 to 90% non-condensing
Altitude	9843 ft (3000m) maximum
Pollution	Degree 2
Codes and Standards	
Emissions	(EMC): FCC Part 15 Class A, ICES-003, IEC6100-4-5
Safety	TUV and UL certified to IEC/EA/UL/CSA - 61010-1 2nd Edition CSA-C22.2 No. 61010-1-04
Accuracy & Billing	ANSI/C12.20 0.5 Class
California Weights and Measures	Select models approved (see ordering information). Certificate # 5780(a)-22.

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Steps for Ordering

1. Determine residential or commercial & industrial applications
2. Determine voltage
3. Determine phase requirements
4. Determine number of meters
5. Choose wiring harness or terminal strips

Ordering Information

Series 8000 Multiple Point Meter		
Voltage	**Description**	**Cat. No.**
Residential		
120/208/240V	12 Circuit - 12 single-phase meters with Wiring Harness	S8112-C12*
120/208/240V	12 Circuit - 6 two-phase meters with Wiring Harness	S8112-C06*
120/208/240V	12 Circuit - 4 three-phase meters with Wiring Harness	S8112-C04*
120/208/240V	24 Circuit - 24 single-phase meters with Wiring Harness	S8124-C24*
120/208/240V	24 Circuit - 12 two-phase meters with Wiring Harness	S8124-C12*
120/208/240V	24 Circuit - 8 three-phase meters with Wiring Harness	S8124-C08*
Commercial & Industrial		
120/208/240V	24 Circuit - 8 x 3, 12 x 2, or 24 x 1 with Terminal Strip	S8UTS-241
277/480V	24 Circuit - 8 x 3, 12 x 2, or 24 x 1 with Wiring Harness	277WH-241
277/480V	24 Circuit - 8 x 3, 12 x 2, or 24 x 1 with Terminal Strip	277TS-241
Potential Transformer (Optional)		
480V Delta	Delta Potential Transformer (240V to 120V PT)	S480V-011

* Approved for California Weights & Measures applications

Wiring Harness vs. Terminal Strips

- **Wiring Harness**
  Wiring harness models are equipped with a 12-foot long, 24-pair wiring harness. One end of the harness is a connector which connects to the meter and the other end is a color-coded, unstripped wire. The unstripped side can be run into a panel and current transformers (CTs) can be spliced into the appropriate color-coded connection on the harness.
- **Terminal Strips**
  Terminal Strip models include an additional enclosure and terminal strips for connecting each individual current transformer. Each CT is provided with two labeled screw terminals to land the wiring.

Choosing Between a Wiring Harness and Terminal Strips

- Wiring harnesses offer a less labor intensive solution when all CTs are located in one panel like in a multi-family high rise project. This eliminates the need to extend CT wires out of the panel.
- Terminal strips are ideal for installers who prefer to land each wire and not use a color-coded wiring harness. For CTs located in different panels or different locations with a switchboard, terminal strips offer an easier solution with the ability to extend the current transformer wiring back to the meter location for termination. Terminal strip models also carry a slightly higher cost and should be considered with the project budget.

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