

NEMeter 3

3-PHASE METER



FEATURES

- 3-channel multi-circuit monitoring
- Revenue-grade Class 0.2 accuracy
- Supports single-phase and three-phase systems
- Ethernet, BACnet, and Modbus communications
- Split-core, solid-core, hinged, and Rogowski-style CTs
- PowerTrack Online Cloud ready
- CT orientation verification
- Phase loss alarm capability
- UL Listed and CE
- Available in DIN rail or wall mount configurations



CAPACITY

3 CHANNELS

Multi-circuit monitoring



ACCURACY

CLASS 0.2

Revenue-grade Accuracy



FLEXIBILITY

MOUNTING OPTIONS

Surface Mount or DIN Rail



CONNECTIVITY

REMOTE ACCESS

Cloud & BAS Integration

The NE Meter 3 is a compact revenue-grade submeter designed for commercial, industrial, and tenant submetering applications. Supporting single- and three-phase systems, it delivers real-time monitoring of voltage, current, power, and energy data.

With BACnet and Modbus communications, flexible DIN rail or wall mount options, and compatibility with a wide range of CTs, the NE Meter 3 is designed for simple integration, installation, and long-term energy monitoring reliability.

APPLICATIONS

Tenant Energy Allocation

Commercial & Mixed-Use Buildings

Energy Management / Benchmarking

BAS / EMS Integration

NEMeter 3 | ANATOMY

Available in DIN rail or self-contained wall mount configurations.



DIN RAIL MOUNT ENCLOSURE

PANEL FEATURES

1. USB
2. 2-Line Display
3. Cover over Voltage Terminal Block
4. CT Connections (x3)
5. Serial RS - 485
6. Alarm
7. Ethernet Port
8. DIN Rail Channel
9. Display Scroll

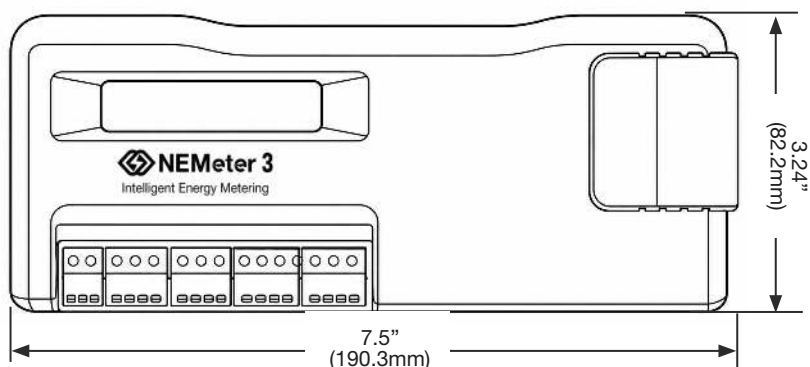


10. 1/2-in Conduit Connection (x3)
11. ABS Plastic Enclosure
12. Circuit Board
13. Voltage Connection

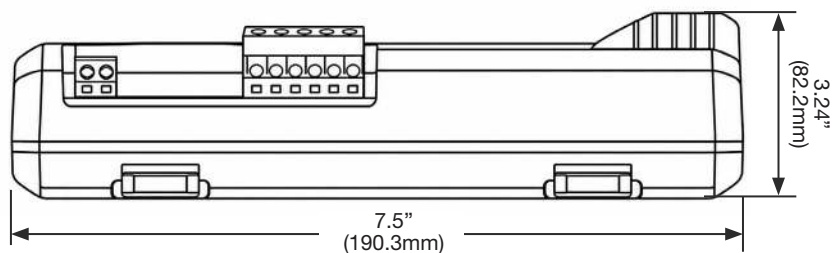


WALL MOUNT ENCLOSURE

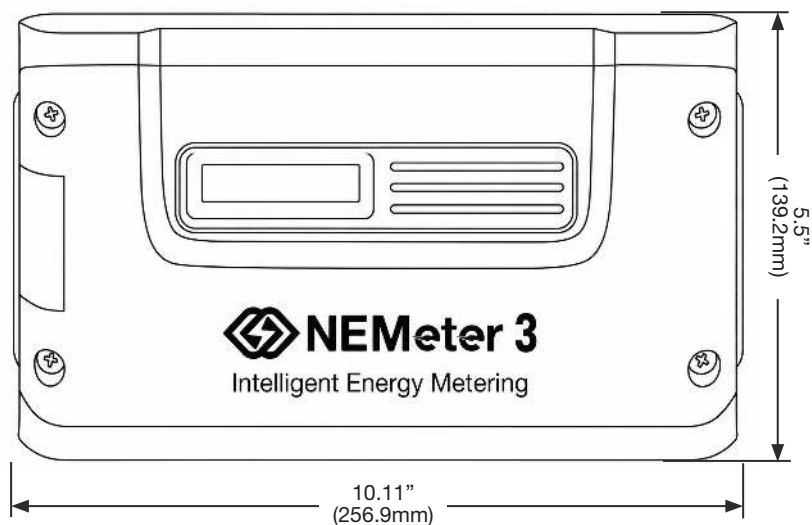
NEMeter 3 | DIMENSIONS



DIN RAIL MOUNT ENCLOSURE FRONT



DIN RAIL MOUNT ENCLOSURE BOTTOM



WALL MOUNT ENCLOSURE FRONT



WALL MOUNT ENCLOSURE BOTTOM

TECHNICAL

SERVICE TYPE	Single Phase, Split Phase, Three Phase-Four Wire (WYE), Three Phase-Three Wire (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
VOLTAGE CHANNELS	80-346 Volts AC Line-to-Neutral, 600V Line-to-Line, CAT III.
CURRENT CHANNELS	3 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 RøCoil CTs
MEASUREMENT TYPE	True RMS using high-speed digital signal processing (DSP) with continuous sampling
LINE FREQUENCY	50/60 Hz (45-70 Hz measurable range). Measurement taken L1-N.
SAMPLING	Continuous 1.8 kHz (No blind cycles)
PARAMETER UPDATE RATE	1 second
MEASUREMENTS	Volts, Amps, kW, kVAR, kVA, aPF, dPF, kW demand, kVA demand, Import (Received) kWh, Export (Delivered) kWh, Net kWh, Import (Received) kVAh, Export (Delivered) kVAh, Net kVAh, Import (Received) kVARh, Export (Delivered) kVARh, Net kVARh, THD, Theta, Frequency. All parameters for each phase and element total
ACCURACY	0.2% ANSI C12.20-2010 Class 0.2
RESOLUTION	32-bit Floating Point
DISPLAY	2 x 16 character display with tri-color backlight
ALARM OUTPUT	Under Voltage (open collector- 30V DC Max.)

MECHANICAL

WIRE CONNECTIONS	12-28 AWG 600 VAC, Voltage connection must be #14 AWG or larger & 600 VAC rated
MOUNTING	Wall mount enclosure or TS35/7.5 DIN Rail
OPERATING TEMPERATURE*	-20° to 60°C (-4° to 140°F)***
HUMIDITY	5% to 95% non-condensing
ENCLOSURE	ABS Plastic, 94-V0 flammability rating. Connections: ½" EMT conduit
ENCLOSURE DIMENSIONS	DIN Rail Version: (L) 19.08cm x (W) 8.23cm x (H) 3.76cm (7.51" x 3.24" x 1.48") Wall Mount Version: (L) 25.70cm x (W) 14.00cm x (H) 5.37cm (10.12" x 5.50" x 2.12")
WEIGHT (APPROX)	DIN Rail Version: 363 grams (13 ounces, no CT's) Wall Mount Version: 635 grams (22 ounces, no CT's)

COMMUNICATIONS

HARDWARE	RS-485, Ethernet, and USB (For configuration only)
SUPPORTED PROTOCOLS	Modbus RTU, BACnet MS/TP, Modbus TCP or BACnet IP
MAX COMMUNICATION LENGTH	1200 with Data Range of 100K bits/second or less
COMMUNICATION RATE (BAUD)	Modbus: 9600, 19200, 38400, 57600, 76800, 115200 baud BACnet: 9600, 19200, 38400, 76800
DATA BITS	8
PARITY	None, Even, Odd
STOP BIT	2, 1
TERMINATION	None provided

CERTIFICATIONS

UL LISTED	Conforms to UL Std 61010-1, 3rd Edition & IEC 61010-2-030 1st Edition
CE	LVD (EN61010-1), EMC (EN61326-1), RoHS 2 (EN50581)

NEMETER VIEWPOINT SOFTWARE

OPERATING SYSTEM	Windows® 11, Windows® 10, Windows® 8, Windows® 7
COMMUNICATIONS	USB & Ethernet standard.
SECURITY	2 levels of PIN protection (Read/Write or Read-Only)

PRODUCT CONFIGURATOR

BRAND	CHANNEL	ENCLOSURE/MOUNTING	NETWORK	TOU
NE-METER (NEM)	3 12 24 48	Poly Enclosure (PE) Mounting Plate (MP) DIN RAIL (DN)	Blank Cloud Enabled (CE)	Blank (N) Yes (Y)

ORDERING INFORMATION

NEMETER MULTI-CHANNEL MONITORING

CATALOG NUMBER	DESCRIPTION
NEM-3-DN-CE	DIN Rail Mount + Display: 3-Channel Cloud enabled
NEM-3-DN-Y	DIN Rail Mount + Display: 3-Channel, TOU enabled
NEM-3-PE-CE	Wall Mount + Display: 3-Channel, Poly Enclosure Cloud enabled
NEM-12-PE-CE	Wall Mount + Display: 12-Channel, Poly Enclosure Cloud enabled
NEM-12-PE-Y	Case+Display: 12-Channel, Poly Enclosure, TOU enabled
NEM-12-MP	Mounting Plate + Display, 12-Channel
NEM-12-MP-Y	Mounting Plate +Display: 12-Channel, TOU enabled
NEM-24-PE-CE	Case+Display: 24-Channel, Poly Enclosure, Cloud enabled
NEM-24-MP	Mounting Plate + Display, 24-Channel
NEM-48-PE-CE	Case+Display: 48-Channel, Poly Enclosure Cloud enabled
NEM-48-MP	Mounting Plate + Display, 48-Channel
NEM-48-MP-CE	Mounting Plate + Display, 48-Channel, Cloud Enabled

COMPATIBLE CT OPTIONS*

CATALOG NUMBER	DESCRIPTION
DI-HG-10-20	20A, Hinged CT, 0.4" (10mm) window, 3m Leads
DI-HG-10-50	50A, Hinged CT, 0.4" (10mm) window, 3m Leads
DI-HG-25-100	100A, Hinged CT, 1.0" (25mm) window, 3m Leads
DI-HG-25-200	200A, Hinged CT, 1.0" (25mm) window, 3m Leads
DI-HG-36-400	400A, Hinged CT, 1.4" (36mm) window, 3m Leads
DI-SP-19-100-RG-C	100A, Split Core CT, 333mV, 0.75" (19MM) window, 3m Leads, Revenue Grade CTEP
DI-SP-51-1000	1000A, Split Core CT, 2" (51mm) window, 3m Leads
DI-SC-19-100-RG	100A, Solid Core CT, 0.75" (19mm) window, 3m Leads, Revenue Grade
DI-SC-25-200-RG	200A, Solid Core CT, 1.0" (25mm) window, 3m Leads, Revenue Grade
DI-SC-32-400-RG	400A, Solid Core CT, 1.25" (32mm) window, 3m Leads, Revenue Grade
DI-SC-15-100-RG	100A, Solid Core Mounting CT, 0.6" (15mm) window, 3m Leads, Revenue Grade
DI-SC-20-200-RG	200A, Solid Core Mounting CT, 0.78" (20mm) window, 3m Leads, Revenue Grade
DI-SC-35-400-RG	400A, Solid Core Mounting CT, 1.38" (35mm) window, 3m Leads, Revenue Grade
DI-RO-17-4000-3M	4000A, Rogowski Coil, 17" (43.2cm) length, 3m Leads
DI-RO-246-4000-3M	4000A, Rogowski Coil, 24" (60cm) length, 3m Leads
AE-SP-19-50-RG	50A, Split Core CT, 333mV, 0.75" (19MM) window, 2.5m Leads, Revenue Grade
AE-SP-19-70-RG	75A, Split Core CT, 333mV, 0.75" (19MM) window, 2.5m Leads, Revenue Grade
AE-SP-19-100-RG	100A, Split Core CT, 333mV, 0.75" (19MM) window, 2.5m Leads, Revenue Grade
AE-SP-19-150-RG	150A, Split Core CT, 333mV, 0.75" (19MM) window, 2.5m Leads, Revenue Grade
AE-SP-32-200-RG	200A, Split Core CT, 333mV, 1.25" (32MM) window, 2.5m Leads, Revenue Grade
AE-SP-32-250-RG	250A, Split Core CT, 333mV, 1.25" (32MM) window, 2.5m Leads, Revenue Grade
AE-SP-32-300-RG	300A, Split Core CT, 333mV, 1.25" (32MM) window, 2.5m Leads, Revenue Grade
AE-SP-32-400-RG	400A, Split Core CT, 333mV, 1.25" (32MM) window, 2.5m Leads, Revenue Grade
AE-SP-51-400-RG	400A, Split Core CT, 333mV, 2" (51MM) window, 2.5m Leads, Revenue Grade
AE-SP-51-600-RG	600A, Split Core CT, 333mV, 2" (51MM) window, 2.5m Leads, Revenue Grade
AE-SP-51-800-RG	800A, Split Core CT, 333mV, 2" (51MM) window, 2.5m Leads, Revenue Grade
AE-SP-80-1000-RG	1000A, Split Core CT, 333mV, 3.1"x3.5" (80X90MM) window, 2.5m Leads, Revenue Grade
AE-SP-80-1200-RG	1200A, Split Core CT, 333mV, 3.1"x3.5" (80X90MM) window, 2.5m Leads, Revenue Grade
AE-SP-105-1600-RG	1600A, Split Core CT, 333mV, 4.1"x6.1" (105X155MM) window, 2.5m Leads, Revenue Grade
AE-SP-105-2000-RG	2000A, Split Core CT, 333mV, 4.1"x6.1" (105X155MM) window, 2.5m Leads, Revenue Grade
AE-SP-105-2500-RG	2500A, Split Core CT, 333mV, 4.1"x6.1" (105X155MM) window, 2.5m Leads, Revenue Grade
AE-SP-130-3000-RG	3000A, Split Core CT, 333mV, 5.1"x7" (130X180MM) window, 2.5m Leads, Revenue Grade
AE-SP-130-4000-RG	4000A, Split Core CT, 333mV, 5.1"x7" (130X180MM) window, 2.5m Leads, Revenue Grade
AE-SC-93-800-RG	800A, Solid Core CT, 333mV, 3.66" (93MM) window, 2.5m Leads, Revenue Grade
AE-SC-42-400-RG	400A, Solid Core CT, 333mV, 1.65" (42MM) window, 2.5m Leads, Revenue Grade
AE-SC-30-200-RG	200A, Solid Core CT, 333mV, 1.20" (30MM) window, 2.5m Leads, Revenue Grade

WIRELESS COMMUNICATION OPTIONS

GPP5352	LTE CAT1 Industrial Router, Wi-Fi&I/O Option
GPP5353	LTE CAT M1 Industrial M2M Router w/ High Gain Antenna

*Other CT options in Hinged, Split-Core, Solid-Core, and Rogowski Coil available for a variety of applications.