

Series 1000 Single Phase Meter Kits

Submetering Solutions for Accurate Measurement & Verification



- kWh meter and optional Demand Reset
- 100 - 800 Amps
- ModBus RTU (RS485) and Pulse output - standard features
- Large LCD Display
- Kit includes submeter and required Current Transformers (CTs)

DEFINITION

The Leviton Series 1000 line of revenue-grade meters meets all measurement and verification-based opportunities including load management and LEED rating achievement. Designed to provide a simple and effective process for accurately capturing measurements of power consumption, Series 1000 Meters are easy to specify and install for new construction and retrofits.

Leviton meters utilize highly accurate current transformers for revenue-grade performance certified to ANSI standards. Competing products use current sensors that do not provide the same level of performance. Leviton offers CTs in solid and split core styles to accommodate all phases of installation and construction. Solid core CTs are ideal for new construction, when power is not live and wires can easily be threaded through the core. Split core CTs can be installed at any time without having to disconnect wire terminations, making them the optimal choice for retrofitting an existing structure. Split core CTs close securely for fast, precise installation with no need for time-consuming tie wraps and no worries about improper seating or core half separation. Both solid and split core CTs offer high quality, long term accuracy and reliability.

Every Series 1000 Meter has an installer-friendly feedback feature. The red reverse phase indicator acts as an installation diagnostics tool and illuminates if a meter is improperly installed. After installation, the green duty cycle light shows that the meter is collecting the electrical consumption data at the appropriate rate. All 100 and 200 Amp solid core CTs have color-coded labels to easily identify correct line/load orientation.

PRODUCT DATA

APPLICATIONS

Use Series 1000 Meters in commercial, institutional, industrial and government applications for:

- Load profiling and benchmarking
- AMR/BAS/BMS/EMS integration
- Usage aggregation
- Tenant cost allocation
- Measurement and verification
- Energy conservation and cost reduction
- Green building initiatives and Government mandates

FEATURES

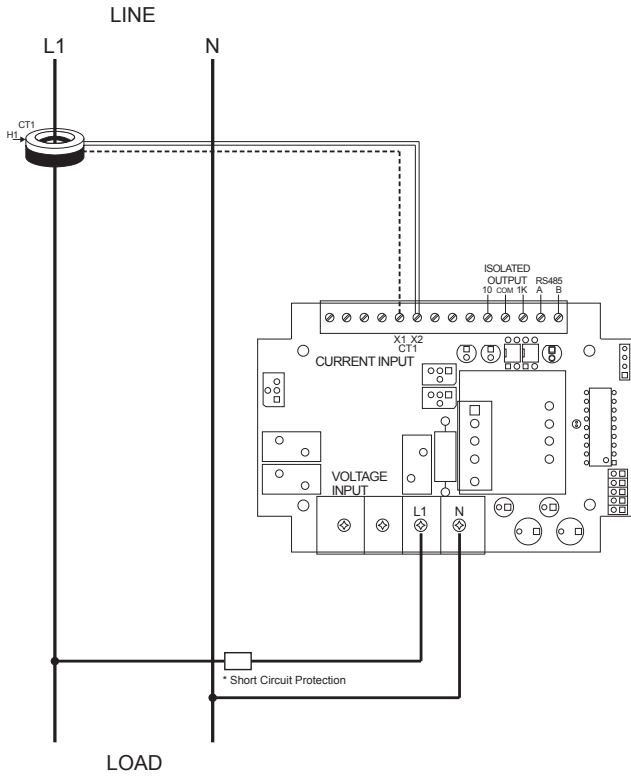
- Measures kWh and peak demand (optional)
- Conforms to all applicable standards of ANSI C12.1
- Equipped standard with an Isolated Pulse Output channel and ModBus RTU (RS485) for easy AMR/BAS/BMS/EMS interface
- Utilizes either revenue-grade 0.3% accuracy class 0.1A secondary solid core current transformers (CTs) that conform to all applicable ANSI requirements or 1.0% accuracy split-core CTs
- Up to three sets of CTs per phase can be paralleled per meter without the need for a meter multiplier
- Enclosure options include surface mount industrial grade JIC steel indoor and NEMA 4X outdoor
- Interfaces with numerous communication systems
 - Hardwired Automatic Meter Reading (AMR) or wireless AMR
- Large LCD display shows kWh and optional peak and instantaneous kW with Demand Reset
- Load Indicator LED verifies meter functionality
- Reverse Phase Indicator LED illuminates if the meter is improperly installed
- CT lead length maximum: 48"
- UL/cUL Listed Energy Usage Monitor per CCN FTRZ
- Ten year warranty

CONFIGURATIONS*

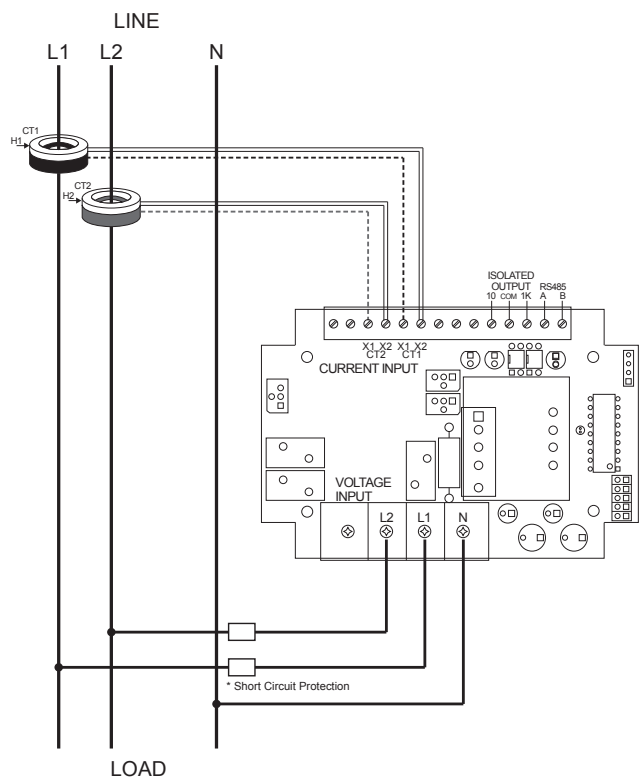
AMPERAGES	PHASE/VOLTAGES
100-800A	1Ø/2W - 120V
100-800A	1Ø/3W - 120/208/240V
100-800A	1Ø/2W - 277V
100-800A	1Ø/3W - 277/480V

* Contact factory for non-US voltage configurations.

SINGLE ELEMENT SERIES 1000 HOOKUP DIAGRAM



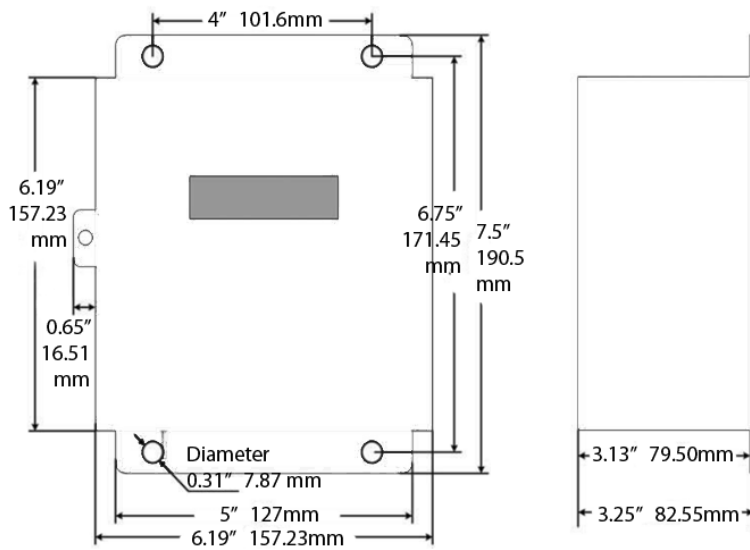
DUAL ELEMENT SERIES 1000 HOOKUP DIAGRAM



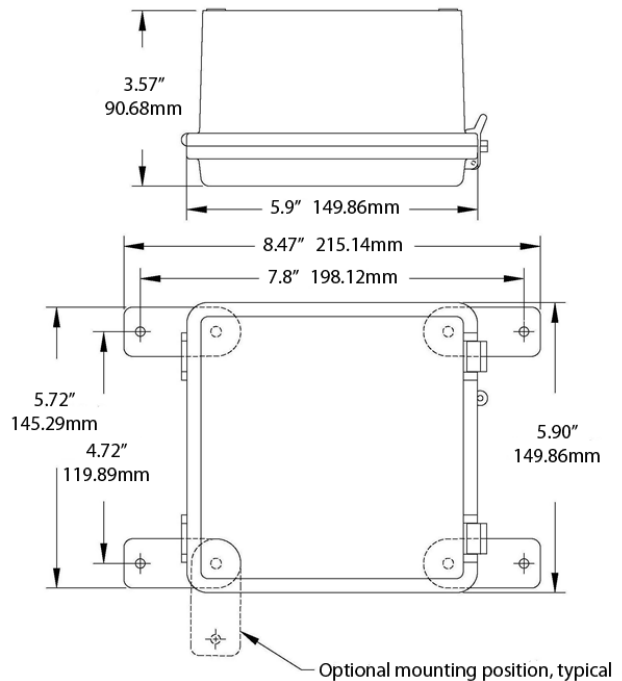
Leviton recommends solid core transformers (CTs) for revenue-grade accuracy. Our 100A and 200A color coded CTs assist with correct installation by indicating phase monitored. Split core CTs are also available upon request for applications where power cannot be interrupted during installation. Our 100-800 Amp Split Core CTs offer +/-1.0% accuracy.

*Short circuit protection per NEC and local codes by others

DIMENSIONS INDOOR ENCLOSURE



OUTDOOR ENCLOSURE



Leviton Mfg. Co., Inc. Lighting & Energy Solutions

20497 SW Teton Avenue, Tualatin, OR 97062 1-800-736-6682 Tech Line: 1-800-959-6004 Fax: 503-404-5594 www.leviton.com/les
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PRODUCT DATA



ORDERING INFORMATION

Series 1000 Single Phase Meter Kits - Indoor Enclosure

NOTE: All kits include meter, specified enclosure and Current Transformers (CTs)

Voltage	Amps	CTs Included	Leviton P/N
120V 1 PH 2 W	100	1 Split CT	1K120-01W
	200	1 Split CT	1K120-02W
	400	1 Split CT	1K120-04W
	800	1 Split CT	1K120-08W
	100	1 SOLID CT	1K120-1SW
	200	1 SOLID CT	1K120-2SW
120/208V 1 PH 3 W or 120/240V 1 PH 3 W (Split Phase)	100	2 Split CTs	1K240-01W
	200	2 Split CTs	1K240-02W
	400	2 Split CTs	1K240-04W
	800	2 Split CTs	1K240-08W
	100	2 SOLID CTs	1K240-1SW
	200	2 SOLID CTs	1K240-2SW
277V 1 PH 2W	100	1 Split CT	1K277-01W
	200	1 Split CT	1K277-02W
	400	1 Split CT	1K277-04W
	800	1 Split CT	1K277-08W
	100	1 SOLID CT	1K277-1SW
	200	1 SOLID CT	1K277-2SW

OUTDOOR ENCLOSURE

Voltage	Amps	CTs Included	Leviton P/N
120V 1 PH 2 W	100	1 Split CT	1O120-01W
	200	1 Split CT	1O120-02W
	400	1 Split CT	1O120-04W
	800	1 Split CT	1O120-08W
120/208V 1 PH 3 W or 120/240V 1 PH 3 W (Split Phase)	100	2 Split CTs	1O240-01W
	200	2 Split CTs	1O240-02W
	400	2 Split CTs	1O240-04W
	800	2 Split CTs	1O240-08W
277V 1 PH 2 W	100	1 Split CT	1O277-01W
	200	1 Split CT	1O277-02W
	400	1 Split CT	1O277-04W
	800	1 Split CT	1O277-08W

The following products are also part of the Leviton line of integrated metering solutions:

Series 2000 Meters Multiple Meter Units (MMUs)
 Series 3000 Smart Meters Current Transformers (CTs)
 Mini Meters Energy Monitoring Software and Hardware

NOTE: Individual submeters are available, please consult factory for availability. Individual Current Transformers (CTs) are also available; see the Current Transformer data sheet documentation for part numbers and additional information.

LEVITON SPECIFICATION SUBMITTAL

JOB NAME:	CATALOG NUMBERS:
JOB NUMBER:	

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