

# VerifEye™ Series 2000

## Three Phase Meters

### Sub-Metering Solutions for Accurate Measurement & Verification



#### DEFINITION

The Leviton VerifEye™ Series 2000 line of revenue-grade meters meets all measurement and verification-based opportunities – including load management and LEED rating achievement. It is also California Weights and Measures approved. Designed to provide a simple and effective process for accurately capturing measurements of power consumption, Series 2000 meters are easy to specify and install for new construction and retrofits.

- Approved for California Weights & Measures
- 3-Phase, 4-Wire applications, 120/208V or 277/480V
- kWh and demand (optional)
- Large LCD display
- Isolated pulse output channel
- 100A-1200A Services

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 Current Transformers (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 2000 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 electrical consumption data at the appropriate rate. All 100 and 200 Amp solid core CTs have color-coded labels to easily identify and correctly land the wires at the meter.

**Leviton Manufacturing Co., Inc. Energy Management, Controls and Automation**

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## PRODUCT DATA

### APPLICATIONS

Use Series 2000 meters in commercial, institutional, industrial and government applications for:

- Load profiling and benchmarking
- AMR integration
- Usage aggregation
- Tenant cost allocation
- Measurement and verification
- Energy conservation and cost reduction
- Green building initiatives and government mandates

### FEATURES

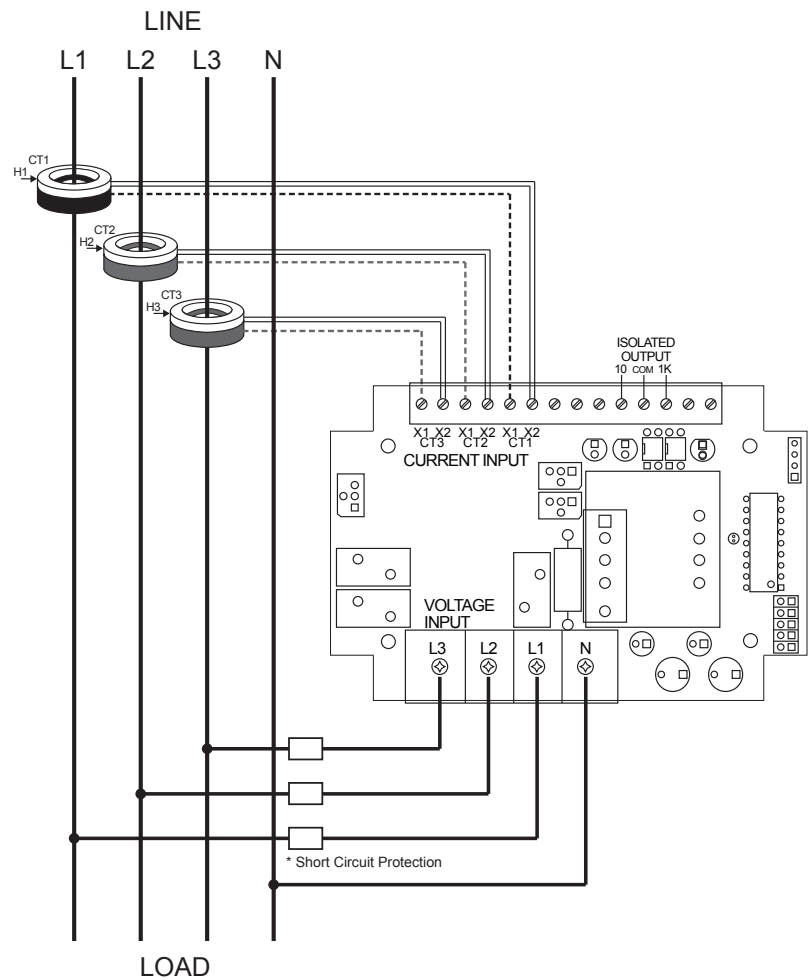
- Measures kWh and demand (optional)
- Approved for California Weights & Measures tenant billing applications (100A/200A/400A versions)
- Conform to all applicable standards of ANSI C12.1
- Equipped with an Isolated Pulse Output channel
- Utilizes revenue grade 0.3% accuracy class 0.1A secondary solid core 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
- Enclosures 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 instantaneous and peak demand (optionally) with manual keyed reset
- Load Indicator LED verifies meter functionality
- Reverse Phase Indicator LED illuminates if the meter is improperly installed
- UL/cUL Listed for UL 916 Energy Monitoring Equipment
- Five year warranty
- California Weights and Measures approved

### CONFIGURATIONS\*

| AMPERAGES | PHASE/VOLTAGES       |
|-----------|----------------------|
| 100-1200A | 3Ø/4W - 120/208/240V |
| 100-1200A | 3Ø/4W - 277/480V     |

\* Contact factory for non-US voltage configurations.

THREE ELEMENT SERIES 2000 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 100-1, 200 Amp Split Core CTs offer +/-1.0% accuracy.

ORDERING INFORMATION  
Series 2000 Three Phase Meters

**NOTE:** Current Transformers (CTs) sold separately - see Current Transformers product data sheet for ordering information

| CAT. NO.*                                  | DESCRIPTION |
|--------------------------------------------|-------------|
| <b>INDOOR THREE ELEMENT METER, 3PH 4W</b>  |             |
| 2N208-xxx                                  | 120/208V    |
| 2N480-xxx                                  | 277/480V    |
| <b>OUTDOOR THREE ELEMENT METER, 3PH 4W</b> |             |
| 2R208-xxx                                  | 120/208V    |
| 2R480-xxx                                  | 277/480V    |

\* When ordering a Series 2000 Meter, replace xxx with the following to indicate amperage ratings:

- 011: 100:0.1A, Max 100A
- 021: 200:0.1A, Max 200A
- 041: 400:0.1A, Max 400A
- 081: 800:0.1A, Max 800A
- 121: 1200:0.1A, Max 1200A
- Demand Option (for indoor models only): replace the last digit in the suffix with a "D"

**ORDERING INFORMATION**

**Series 2000 Three Phase Meter Kits**

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

| Voltage                            | Amps | CTs Included | Leviton P/N |
|------------------------------------|------|--------------|-------------|
| 120/208V 3 PH 4 W WYE kWh Meter    | 100  | 3 Split CTs  | 2K208-01W   |
|                                    | 200  | 3 Split CTs  | 2K208-02W   |
|                                    | 400  | 3 Split CTs  | 2K208-04W   |
|                                    | 800  | 3 Split CTs  | 2K208-08W   |
|                                    | 1200 | 3 Split CTs  | 2K208-12W   |
|                                    | 100  | 3 SOLID CTs  | 2K208-1SW   |
|                                    | 200  | 3 SOLID CTs  | 2K208-2SW   |
| 277/480 3 PH 4 W WYE kWh Meter     | 100  | 3 Split CTs  | 2K480-01W   |
|                                    | 200  | 3 Split CTs  | 2K480-02W   |
|                                    | 400  | 3 Split CTs  | 2K480-04W   |
|                                    | 800  | 3 Split CTs  | 2K480-08W   |
|                                    | 1200 | 3 Split CTs  | 2K480-12W   |
|                                    | 100  | 3 SOLID CTs  | 2K480-1SW   |
|                                    | 200  | 3 SOLID CTs  | 2K480-2SW   |
| 120/208V 3 PH 4 W WYE Demand Meter | 100  | 3 Split CTs  | 2K208-01D   |
|                                    | 200  | 3 Split CTs  | 2K208-02D   |
|                                    | 400  | 3 Split CTs  | 2K208-04D   |
|                                    | 800  | 3 Split CTs  | 2K208-08D   |
|                                    | 1200 | 3 Split CTs  | 2K208-12D   |
| 277/480V 3 PH 4 W WYE Demand Meter | 100  | 3 Split CTs  | 2K480-01D   |
|                                    | 200  | 3 Split CTs  | 2K480-02D   |
|                                    | 400  | 3 Split CTs  | 2K480-04D   |
|                                    | 800  | 3 Split CTs  | 2K480-08D   |
|                                    | 1200 | 3 Split CTs  | 2K480-12D   |

**The following products are also part of the Leviton VerifEye line of integrated sub-metering solutions:**

Series 1000 Meters  
 Series 2000 Meters  
 Series 3500 Smart Meters  
 Series 4000/4100 Industrial ModBus Meters  
 Series 8000 Multi-Point Meters  
 EMH+ Integrated Meter & Hub  
 0.5% Mini Meters  
 Multiple Meter Units (MMUs)  
 Current Transformers (CTs)  
 BiSuite  
 Building Manager Online (BMO) 3.0  
 Energy Manager Monitoring Software

**Series 2000 Three Phase Meter Kits Outdoor Enclosure**

| Voltage                         | Amps | CTs Included | Leviton P/N |
|---------------------------------|------|--------------|-------------|
| 120/208V 3 PH 4 W WYE kWh Meter | 100  | 3 Split CTs  | 20208-01W   |
|                                 | 200  | 3 Split CTs  | 20208-02W   |
|                                 | 400  | 3 Split CTs  | 20208-04W   |
|                                 | 800  | 3 Split CTs  | 20208-08W   |
|                                 | 1200 | 3 Split CTs  | 20208-12W   |
| 277/480V 3 PH 4 W WYE kWh Meter | 100  | 3 Split CTs  | 20480-01W   |
|                                 | 200  | 3 Split CTs  | 20480-02W   |
|                                 | 400  | 3 Split CTs  | 20480-04W   |
|                                 | 800  | 3 Split CTs  | 20480-08W   |
|                                 | 1200 | 3 Split CTs  | 20480-12W   |