

# VerifEye™ Mini Meter™ OEM Modules

## Sub-Metering Solutions for Accurate Measurement & Verification



### DEFINITION

The Leviton VerifEye™ Mini Meter™ OEM Modules line of revenue-grade meters meets the requirements for all single phase, tenant billing applications. Designed to provide a simple and effective process for accurately capturing measurements of power consumption, Mini Meters are easy to specify and install for new construction and retrofits.

- 1- or 2-Phase applications
- Revenue grade accuracy: 0.5%, ANSI C12.20
- Compact footprint; fits almost anywhere
- Cost effective solution
- Isolated pulse output channel for AMR compatibility

Leviton meters utilize highly accurate current transformers for revenue-grade performance. 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 OEM Mini Meter has an installer-friendly feedback feature. The user friendly reverse phase indicators on the meter's LCD display act as an installation diagnostics tool and illuminates if a meter is improperly installed. After installation, the green load light shows that the meter is collecting electric 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.

### APPLICATIONS

Use Mini Meters in all single phase commercial applications for:

- Load profiling and benchmarking
- Measurement and verification
- Green building initiatives
- Utility usage benchmarking

**Note:** the Mini Meter is not be used in industrial applications

# VerifEye™ Mini Meter™ OEM Modules

\* Short circuit protection per NEC and local codes by others

## SPECIFICATIONS

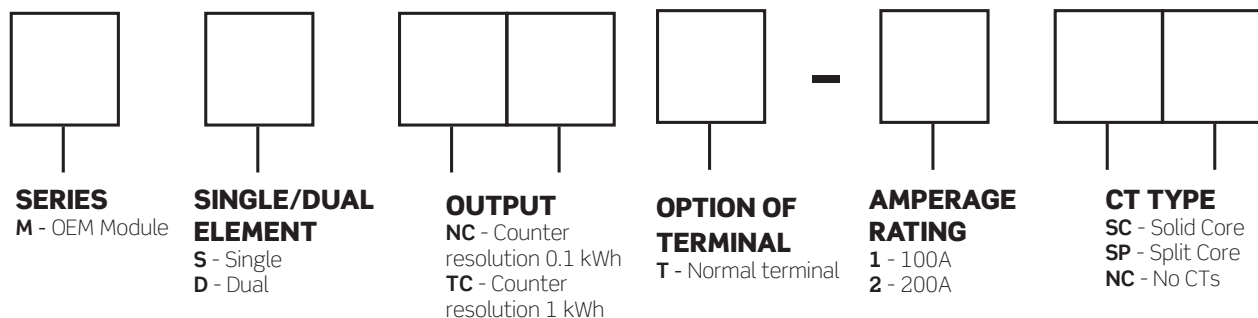
	60 Hz	50 Hz
<b>Input Configurations*</b>	1PH2W 120VAC 1PH3W 120/240VAC (Split-Phase) 2PH3W 120/208VAC	1PH2W 240VAC
<b>Supply Voltage Range<sup>1</sup> (Line to Neutral)</b>	108 - 132VAC	216-264VAC
<b>Maximum Input Power</b>	5VA Max	16VA Max
<b>Line Frequency</b>	60 Hz	50 Hz
<b>Maximum Rated Current (100A/200A Meters)</b>	Primary: Max rated current +10%, Secondary: 110mA (0.11A)	
<b>Power Factor Range</b>	0.5 lagging to 1.0; 0.866 leading to 1.0	
<b>Accuracy<sup>2</sup> From -4 to 122° F (-20 to 50° C)</b>	Meets ANSI C12.20 (class 0.5%) with calibrated Solid Core CTs with a 100mA max output. Meter input burden resistance at 3Ω.	
<b>Meter Operating and Storage Temperature</b>	-4 to 122° F (-20 to 50° C)	
<b>Isolated Outputs</b>	10Wh/pulse, 100Wh/pulse, 1kWh/pulse, reference to isolated common (ISOL COM) terminal, open collector outputs	
<b>Mechanical Counter Output</b>	12V DC mechanical counter, 10 mA max (not isolated, for pre-wiring only) optional	
<b>12V DC Output</b>	Used to power AMR solutions	
<b>Terminal Connections for Mini Meter OEM Module</b>	The rated torque for these terminal blocks is 3.5 lb/in of torque maximum for AMR solutions, solid or stranded 14 to 18 AWG copper wire can be used	
<b>Fixed</b>	18 AWG pre-wired voltage leads and fixed screw terminals for CTs and pulse outputs	

\* Neutral must be connected for all configurations

<sup>1</sup> Controlled Environment: normally only non-conductive pollution occurs. Occasionally, however, a temporary conductivity caused by condensation must be expected.

<sup>2</sup> Accuracy based on Leviton solid core current transformers with 100 mA max output. Meter input burden resistance at 3 Ohms.

## ORDERING KEY



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

20497 SW Teton Avenue, Tualatin, OR 97062 **tech line** (6:00AM-4:00PM PT Mon-Fri) 800-959-6004 **fax** 503-404-5594

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## ORDERING INFORMATION

CAT. NO.	DESCRIPTION
<b>OEM MODULE SINGLE PHASE MINI METERS, 0.1kWh, 2W, 120V</b>	
MSNCT-1SP	100A LCD Module with 1 Split Core CT included
MSNCT-2SP	200A LCD Module with 1 Split Core CT included
MSNCT-1SC	100A LCD Module with 1 Solid Core CT included
MSNCT-2SC	200A LCD Module with 1 Solid Core CT included
MSNCT-1NC	100A LCD Module without CT
MSNCT-2NC	200A LCD Module without CT
<b>OEM MODULE SINGLE PHASE MINI METERS 1kWh, 2W, 120V</b>	
MSTCT-1SP	100A LCD Module with 1 Split Core CT included
MSTCT-2SP	200A LCD Module with 1 Split Core CT included
MSTCT-1SC	100A LCD Module with 1 Solid Core CT included
MSTCT-2SC	200A LCD Module with 1 Solid Core CT included
MSTCT-1NC	100A LCD Module without CT
MSTCT-2NC	200A LCD Module without CT
<b>OEM MODULE DUAL ELEMENT MINI METERS 0.1kWh, 3W, 120V</b>	
MDNCT-1SP	100A LCD Module with 2 Split Core CTs included
MDNCT-2SP	200A LCD Module with 2 Split Core CTs included
MDNCT-1SC	100A LCD Module with 2 Solid Core CTs included
MDNCT-2SC	200A LCD Module with 2 Solid Core CTs included
MDNCT-1NC	100A LCD Module without CT
MDNCT-2NC	200A LCD Module without CT
<b>OEM MODULE DUAL ELEMENT MINI METERS 1kWh, 3W, 120V</b>	
MDTCT-1SP	100A LCD Module with 2 Split Core CTs included
MDTCT-2SP	200A LCD Module with 2 Split Core CTs included
MDTCT-1SC	100A LCD Module with 2 Solid Core CTs included
MDTCT-2SC	200A LCD Module with 2 Solid Core CTs included
MDTCT-1NC	100A LCD Module without CT
MDTCT-2NC	200A LCD Module without CT

### The following products are also part of the Leviton VerifEye line of integrated submetering solutions:

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

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

20497 SW Teton Avenue, Tualatin, OR 97062 **tel** 800-736-6682 **fax** 503-404-5594 **tech line** (6:00AM-4:00PM PT Mon-Fri) 800-959-6004

### Leviton Manufacturing Co., Inc. Global Headquarters

201 North Service Road, Melville, NY 11747-3138 **tel** 800-323-8920 **fax** 800-832-9538 **tech line** (8:30AM-7:00PM ET Mon-Fri) 800-824-3005

### Visit our Website at: [www.leviton.com/verifeye](http://www.leviton.com/verifeye)

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G-10084/L17-tb  
REV DEC 2017