VerifEye™
Series 6000 Industrial Panel Mount Meter



Series 6000 Meter


Split Core CT


Rogowski Coil CT

Description

The VerifEye™ Series 6000 Panel Mount Meters are designed to monitor a comprehensive data set of electrical parameters for industrial applications. These meters fit in a standard 92mm x 92mm panel mount cutout and are offered with a range of Split Core and Rogowski smart current transformers to cover a broad range of applications. The integrated configuration wizard makes initial setup quick and easy, reducing commissioning time and providing reliable results.

The Series 6000 meters are available with either a Modbus RTU (RS485) or Modbus TCP (Ethernet) interface. The Ethernet enabled model also features a browser based web interface for displaying all the monitoring data.

Applications

- Industrial Electrical Load Management
- OEM Panel Shop Applications
- Motor Control Centers
- Portable Power Solutions
- Switchboard and Service Entrance Applications

Features

- Temperature range: 14°F to 158°F (-10 to 70°C)
- 50/60 Hz
- Measurement Voltages: 50-300V L-N, 87-520V L-L, 45-65Hz
- Real-time measurement of electrical values with graphical display
- Power quality analysis of service and loads
- Measurement of active, reactive, and apparent energy
- Alarms features to notify when parameters are outside defined ranges
- Auto-ranging CTs simplify setup and eliminate mistakes
- CT options from 25A to 6000A
- UL Listed
- CE compliant
- Five year warranty

Measured Parameters

Multi-measurement

- Currents: I1, I2, I3, In, Isystem
- Voltages & frequency: V1,V2, V3, VN, Vsystem, U12, U23, U31, Usystem
- Powers
  - P1, P2, P3, P, Q1, Q2, Q3, Q, S1, S2, S3, ΣS
  - Predictive powers ΣP, ΣQ, ΣS
- Power factor
  - PF1, PF2, PF3, ΣPF, Cos ϕ & tangent ϕ
  - Instantaneous values per phase

Metering

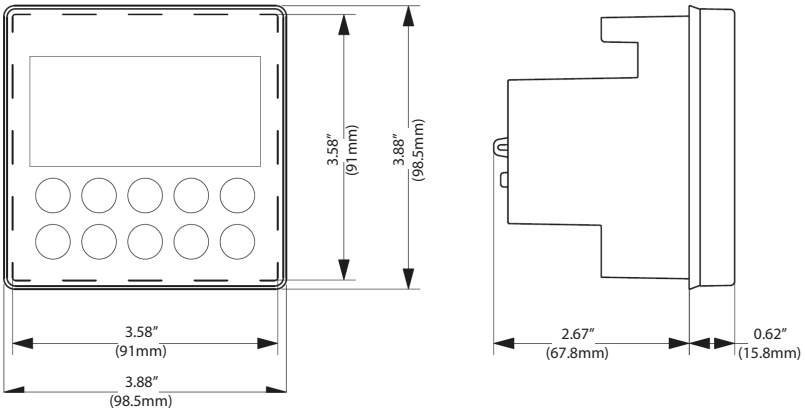
- Active energy: +/- kWh
- Reactive energy: +/- kvarh
- Apparent power: kVAh
- Multi-tariff (8 max)

Quality

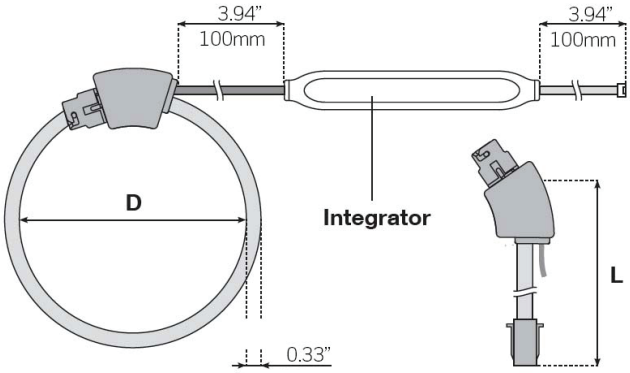
- Voltage Imbalance
  - Vdir, Vinv, Vhom, Udir, Uinv, Unba, Vnba, Vnb, Unb
- Current unbalance
  - Idir, Iinv, Ihom, Inba, Inb
- Total harmonic distortion
  - Currents THDi1, THDi2, THDi3,THDiN, TDDI
  - Phase-to-neutral voltage THDv1, THDv2, THDv3
  - Phase-to-phase voltage THDu12, THDu23, THDu31
- Harmonics - individual values up to the 63rd
  - Currents: I1h, I2h, I3h, INh
  - Phase-to-neutral voltage: V1h, V2h, V3h
  - Phase-to-phase voltage: U12h, U23h, U31h
- Quality events
  - Voltage sags, cut-offs and swells EN50160
  - Kfactor & Crest factor

Leviton Manufacturing Co., Inc. Lighting & Controls
10385 SW Avery Street, Tualatin, OR 97062 **tel** 800-736-6682 **tech line** (6:00AM-4:00PM PT Mon-Fri) 800-959-6004
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Meter Dimensions

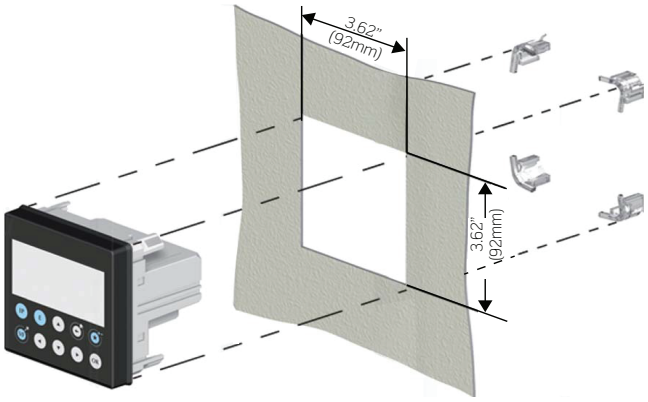


CT Dimensions

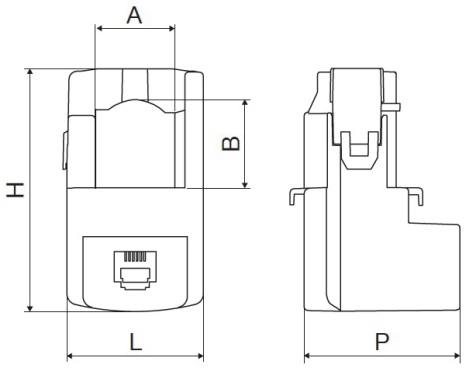


CRSxx

Mounting Diagram



CT Dimensions



CTSxx

	LxHxP	A	B	Window	I nom.	I max.
CTS1A	1.02" x 1.73" x1.10" (26 x 44 x 28mm)	—	—	10mm	25...63A	75.6A
CTS2B	1.14" x 2.63" x 1.10" (29 x 67 x 28mm)	0.55" (14mm)	0.59" (14mm)	14mm	40...160A	192A
CTS3C	1.45" x 2.56" x 1.69" (37 x 65 x 43mm)	0.82" (21mm)	0.90" (23mm)	21mm	63...250A	300A
CTS6D	2.08" x 3.38" x 1.85" (53 x 86 x47mm)	1.26" (32mm)	1.30" (33mm)	32*mm	160...600A	720A

* max = 1.18" x 0.98" (30x25mm)
Ø max - 1.26" (32mm)

Product Data
60P00-000/61P00-000

LEVITON

Specifications

Inputs	60P00	61P00
Measurement Voltage	50-300V L-N 87-520V L-L 45-65Hz	
Control Power, DC	3W max, UL and CE: 125 to 300VDC (external DC current limiting required)	
Input Range	Split Core CTs: 25-63A, 40-160A, 63-250A, 160-600A Rogowski CTs: 200-4000A 8", 1600-6000A 12", and 1600-6000A 24"	
Outputs		
Max Voltage	30VDC, 20mA max	
Real Energy Pulse	N.O. static	
Alarm Contacts	N.C. static	
Serial Port	RS-485 2-wire Modbus RTU (1200 baud to 38.4 kbaud)	
Ethernet Port	N/A	Modbus TCP/IP & integrated Webview User Interface
Mechanical		
Mounting	96mm x 96mm Panel Mount	
Cutout Dimensions	92mm x 92 mm	
Environmental		
Altitude	<2000m maximum	
Operating Temperature	14 to 158°F (-10 to 70°C)	
Storage Temperature	-13 to 185°F (-25 to 85°C)	
Operating Humidity	70°C <97% to RH non-condensing	
Pollution	Degree 2	
Protection	IP52 (NEMA 5) Meter Front Panel, IP20 (NEMA 1) Meter Rear Panel	
Codes & Standards		
Safety	UL61010	
Accuracy	Meter: 0.2 Class, Split Core CT: 0.5 Class, Rogowski CT: 1.0 Class	
Listings	CE compliant	

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Ordering Information

Panel Meters Only		
Voltage	**Description**	**Cat. No.**
Universal 3PH 3W/4W	Modbus RTU (RS485) Interface	60P00-000
Universal 3PH 3W/4W	Modbus TCP (Ethernet) interface	61P00-000
Current Transformers		
.40 in (10mm) ID, 0.5A - 75.6A	Series 6000 Split Core CT	CTS1A-K10
.55 in (14mm) ID, 0.8A - 192A		CTS2B-G14
.83 in (21mm) ID, 1.26A - 300A		CTS3C-G21
1.26 in (32mm) ID, 3.2A - 720A		CTS6D-G32
7.88 in (200mm), 12A - 4800A	Series 6000 Rogowski CT	CRS4K-WRL
12 in (300mm), 32A - 7200A		CRS6K-WRM
24 in (600mm), 32A - 7200A		CRS6K-WRN

CT Cables	
Description	**Cat. No.**
Series 6000 Meter - CT Cable RJ12 - 1x5M	CCSRJ-105
Series 6000 Meter - CT Cable RJ12 - 1x10M	CCSRJ-110
Series 6000 Meter - CT Cable RJ12 - 3x1M	CCSRJ-301
Series 6000 Meter - CT Cable RJ12 - 3x2M	CCSRJ-302
Series 6000 Meter - CT Cable Adapter RJ12 Female to Female	CCSRJ-3FF

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