Triacta GATEWAY-S™ Meter

ANSI C12.20, Class 0.5 high-density REV grade electric meter with a single VRef (600V max) in a lockable, sealable enclosure. Supports a single GATEWAY™ Meter Module for up to 12 self-shorting electrical inputs or 12 pulse inputs. Ethernet communications with native BACnet IP, Modbus TCP and secure FTPS multi-homing AMR. WiFi interface for local monitoring and configuration.

Product Specification

Product Numbers and Variants

Product Number (Meter Head - Meter Base)	Product Name	Configuration		Listings/Approvals for Revenue Applications *
		Meter Head - Elements -	Meter Base - Termination -	
G1-6-ST06	Triacta GATEWAY-S-1T	12	Screwdown	None
G1-6-S006	Triacta GATEWAY-S-1C	12	CT Cable	None
G3-6-ST06	Triacta GATEWAY-S-3T	12	Screwdown	None
G3-6-S006	Triacta GATEWAY-S-3C	12	CT Cable	None
G4-6-ST06	Triacta GATEWAY-S-4T	12 Pulse Inputs	Screwdown	MC
G4-6-S006	Triacta GATEWAY-S-4C	12 Pulse Inputs	CT Cable	MC
G8-6-ST06	Triacta GATEWAY-S-8T	12	Screwdown	MC
G8-6-S006	Triacta GATEWAY-S-8C	12	CT Cable	MC

Features and Specifications

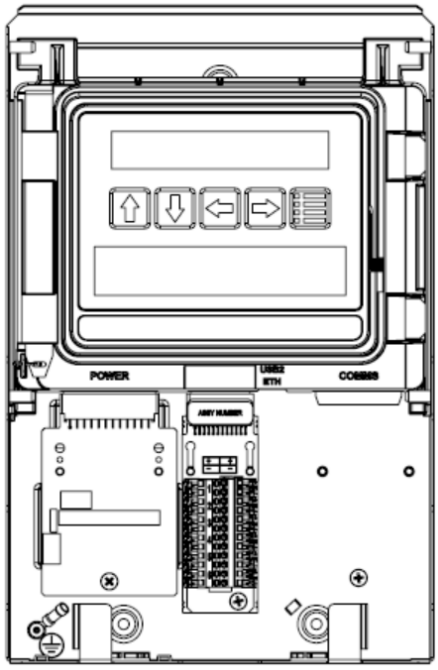
- Revenue Grade (billing ready, sealable, reliable)
- Any mix of 1-phase, 2-phase, or 3-phase electrical metering for up to 12 CT inputs OR 12 Form A Contact Closure Pulse Inputs
- Connects to 80mA/100mA/333mV CTs or Form A Pulse Outputs up to 300 ft (100 m) from meter with 22 AWG wire pairs
- 4-quadrant meter measures total and per phase:
  - Active, Reactive & Apparent Power
  - Peak W and VA Demand
  - PF and phase angles
  - Irms, Vrms
- Single Service Voltage up to 347/600V
- On-board Web server and 2x20 Liquid Crystal Display for local readings

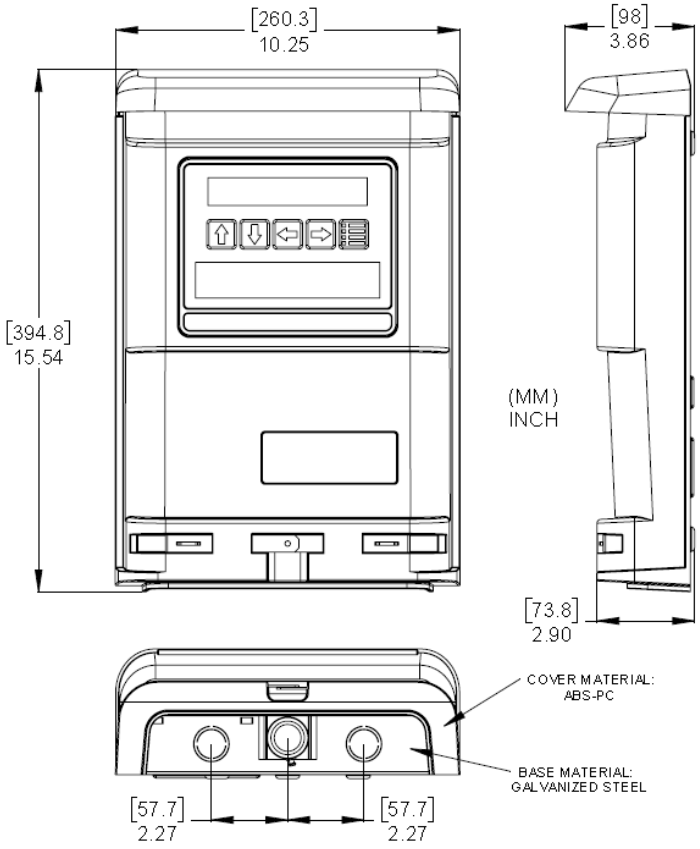
  Multi-homing for reporting to multiple management services.
- Innovative, 2-part meter and meter base design
  - Sealable for Tamper-Evident compliance
  - Separate Utility and Meter Seal
- Integrated self-shorting CT connection modules
- WiFi Access Point
- Cloud-based Meter Management

Reporting and Communications

- AMR via FTP or secure FTPS data push over IP to one or multiple management servers:
  - Plain text CSV file
  - Measurement Interval: 1 to 60 minutes
  - Reporting interval: once/day or every N min.
  - Units of Measure
    - Wh delivered & received (MC Approved)
    - VARh delivered & received
    - Peak & Present W & VA Demand
    - VAh
    - Peak Current
    - Vrms
- BAS Integration via BACnet IP, Modbus TCP/IP, Modbus RTU
- Ethernet Interface
  - 10/100BaseT Full Duplex
  - DHCP Client or static IP address
  - Passive FTP/FTPS port 21
  - NTP port 123
  - Modbus TCP/IP port 502
  - BACnet IP port 47808
  - HTTP port 80
- WiFi Access Point
  - 802.11 b,g,n 2.4 GHz

Internal View and Dimensions





Specifications

MECHANICAL	
Dimensions	Height: 15.54 in (39.5 cm) Width: 10.25 in (26.0 cm) Depth: 3.86 in (9.8 cm)
Weight	8.5 lbs. (3.85 kg) - Fully configured
ELECTRICAL	
Sense voltages	90V to 600V 50/60Hz 1W+N+Protective Earth 2W+N+Protective Earth Wye 3W+N+Protective Earth Wye 3W+Protective Earth Delta
Control Voltage	208V to 600V, No AUX Power, 25 watts max, 50/60 Hz, LA-LB
Fuse rating (F1)	1.25A 600VAC Slow Blow
Required Current Transformers Measurement Category III	80 mA, 100 mA, 333 mV secondary CT Must be UL recognized/listed
CT Wiring	Max 300 ft (100 m) w/ 22 AWG
REGULATORY	
Measurement accuracy (0.5% with 0.3% CTs)	ANSI C12.20 Class 0.5 IEC 62053-22 Class 0,5S (Accuracy compliant when used with 0.3% CTs)
Safety (Pending)	UL/CSA 61010 Ed3 600V CAT III • CANADA - CAN/CSA-C22.2 No. 61010-1-12 (IEC 61010-1:2010, MOD) • USA - UL61010-01 (IEC 61010-1:2010, MOD)
Emissions	FCC Part 15, ICES 003, EN55022, IEC 61000-4-5 - Class B
WiFi	Industry Canada ID: 23814-GATEWAY-S FCC ID: SCR-GATEWAY-S
Listings/Approvals for Revenue Applications	Measurement Canada (AE-2607) - Watthour, up to 12 1-el, 6 2-el, 4 3-el meters and supported combinations. NY, CA, MD - Pending
COMMUNICATIONS AND MEMORY	
On-board Ethernet port	10/100BaseT 802.3-2002; RJ45
WiFi	802.11 b,g,n 2.4 GHz
Modbus TCP/IP	Client Side
BACnet IP	ASHRAE 135-1, BTL Listed
Non-volatile memory storage	16GB Gigabytes 10 Years storage time
ENVIRONMENTAL	
Operating temperature	-40 to 70°C (No LCD display below -20°C)
Operating humidity	5% to 95% non-condensing
Usage environment	Indoor environment, NEMA 250 Type II
Maximum altitude	9843 ft (3000 m)
Pollution degree	2
Over voltage and Measurement category	III