

Triacta GATEWAY 1000

High-density revenue-grade submeter with two Reference Voltages (300V max) and 1- or 3-phase system in a lockable, sealable enclosure. Supports modular combinations of up to 12, 24, 36 or 48 pulse or self-shorting electrical inputs. Capable of accurately measuring and billing gas, water and electricity in multi-unit applications. Electrical inputs are configured for 100mA Solid Core CTs. Ethernet communications with native BACnet IP, Modbus TCP, and secure FTPS multi-homing AMR. Wi-Fi 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 -	
G1000-333-ET00002	Triacta GATEWAY Meter Assembly 1000-2T	12	Screwdown	None
G1100-333-ETT0002	Triacta GATEWAY Meter Assembly 1100-2T	24	Screwdown	None
G1110-333-ETTT002	Triacta GATEWAY Meter Assembly 1110-2T	36	Screwdown	None
G1111-333-ETTTT02	Triacta GATEWAY Meter Assembly 1111-2T	48	Screwdown	None
G1000-333-E000002	Triacta GATEWAY Meter Assembly 1000-2C	12	CT Cable	None
G1100-333-E000002	Triacta GATEWAY Meter Assembly 1100-2C	24	CT Cable	None
G1110-333-E000002	Triacta GATEWAY Meter Assembly 1110-2C	36	CT Cable	None
G1111-333-E000002	Triacta GATEWAY Meter Assembly 1111-2C	48	CT Cable	None

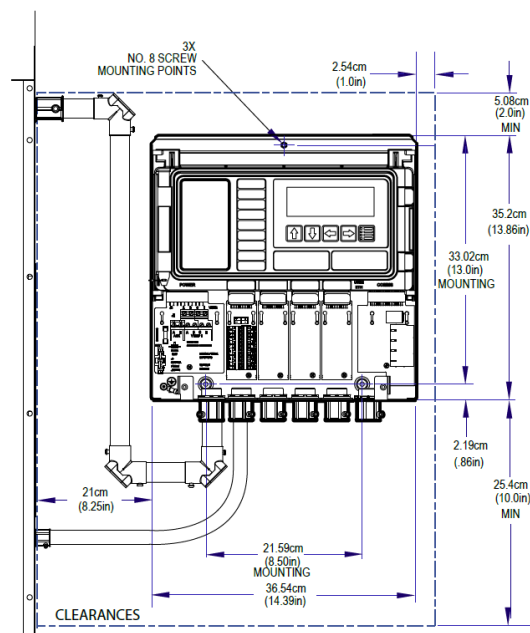
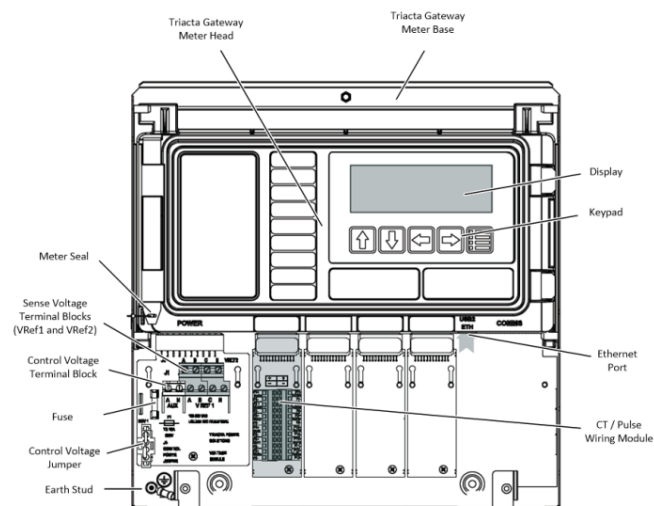
Features and Specifications

- Revenue Grade (billing ready, sealable, reliable)
- Any mix of 1-phase, 2-phase, or 3-phase metering for 12, 24, 36 or 48 CT inputs.
- Connects to 100mA CTs 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
- Dual Service voltages up to 277V with no external PTs
- On-board Web server and large 4x20 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
- 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.
- Logged Measurements for AMR (interval and register)
 - LUMs
 - o Wh delivered & received
 - Non-LUMs
 - o Peak & Present W & VA Demand
 - o VAh
 - o Peak Current
 - o Vrms
- BAS Integration via BACnet IP, Modbus TCP/IP
- 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: 15.52 in. (39.4 cm) Width: 12 in. (38.9 cm) Depth: 2.125 in. (9.0 cm)
Weight	8.77 lb (3.98 kg) - Fully configured
ELECTRICAL	
Sense voltages Vref1 and Vref2	90V to 300V 50/60Hz 1W+N+Protective Earth 2W+N+Protective Earth Wye 3W+N+Protective Earth Wye 3W+Protective Earth Delta
Control Voltage	90V to 300V AuxA-AuxN, 15 watts max, 50/60 Hz
Fuse rating (F1)	3.15A, 500V Slow Blow 5 x 20mm
Required Current Transformers Measurement Category III	100 mA secondary CT Meter burden: 3.18 ohms CT burden: 20 ohms 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 5S (Accuracy compliant when used with 0.3% CTs)
Safety	UL/CSA 61010 Ed3 300V CAT II - 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
Wi-Fi	Industry Canada ID: 23814-GATEWAY FCC ID: SCR-GATEWAY
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 Certified
Non-volatile memory storage	15 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
Installation category	II
Measurement category	III