

TANTALUS TC-1210

GE I-210

TPM Controller

Smart communications for GE I-210
solid state meters



Versatile. Affordable. Easy to install. The TC-1210 transforms a GE I-210 into a two-way communications device to support dynamic pricing, demand response, remote diagnostics, and instant outage notification.

Fast, round-the-clock access to meter data enables CSRs to respond promptly and insightfully to customer inquiries. That translates into fewer truck rolls needed to investigate problems and perform off-cycle reads, reduced downtime resulting from faster repairs, and all the information needed to provide unsurpassed, cost-effective customer service.

The GE I-210 provides the accuracy and reliability required by progressive utilities. The TC-1210 delivers data when it's needed and where it's needed—billing, CIS, OMS, and other applications—to ensure operational excellence, attentive customer service, and airtight regulatory reporting. TUNet—the Tantalus Utility Network—also helps accelerate ROI. It gives utilities the freedom to surgically deploy modules to prioritized customer segments or geographies or as part of a full scale advanced metering roll out.



SMART METERING

Tantalus adds two-way communications to electronic GE I-210 singlephase watthour meters. Combining GE's precise metering technology with Tantalus' multi-application data network establishes a high performance bi-directional communications pipeline to fully support advanced metering, and the rich data requirements of dynamic pricing and demand response programs. The TC-1210 transmits the data needed for TOU, CPP, or RTP billing programs in hourly intervals or more frequently if desired. Utilities can use the TC-1210 to closely monitor power quality (voltage blinks, sags and swells) and detect outages remotely. The result is precise load profiling coupled with a new level of reliability and operational performance.

TANTALUS ADVANTAGES

- Reports kWh energy consumption, voltage and outage
- Reports consumption in periods as low as 15-minute intervals
- On-request reads allow customer service to respond to inquiries and closely monitor endpoints remotely
- Remotely programmable operating parameters allow a utility to easily tailor performance measurements
- Measures voltage from 170 to 260 V; accurate to $\pm 1\%$
- Reports voltage sags / swells / blinks to help ensure high quality power delivery to each home
- Field initiated outage and restoration alerts instantly notify staff of critical events and reduce field time
- Under-the-glass design fits into tamper-resistant GE I-210
- Non-volatile memory maintains data during outages
- Automatically negotiates the best path to TUNet to ensure reliable communication
- Optional remote disconnect / reconnect available through the RD-1000; Remote Disconnect Under Glass also available from Tantalus
- Features Tantalus TruPush™ technology for instant, field initiated event notifications such as outage alerts or load shed success; no device polling required

Meter Forms Supported

- 2S

Radio

- Frequency range: 902-928 MHz ISM Band
- TUNet TruPush™ Technology
- Vectored Channels: 64,000
- Data rate: 10-300 kbps
- Transmit power: +27 dBm (0.5 watt)
- Receive sensitivity: -116 dBm
- Antenna: built-in
- ZigBee under glass optional

Power

- Supply: 240 VAC from AC line mains
- Quiescent power: 1.9 watts

Physical

- Operating temperature range: -40° to +158° F / -40° to +70° C
- Operating humidity range: 5% to 95% non-condensing

Approvals / Standards

- ANSI C12.1 & C12.20
- FCC for CFR Title 47 Part 15b
- Measurement Canada

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