

GE I-210+

Remote Disconnect Controller

Smart communications for GE I-210+ meters
with Remote Disconnect Under Glass



Tantulus adds Smart Grid communications to GE's state-of-the-art residential meter with built-in remote disconnect / reconnect.

GE Energy's I-210+ meter with an integrated Tantulus communications module combines the accuracy and flexibility of GE's single-phase metering platform with the efficiency, economy and scalability of TUNet® –The Tantulus Utility Network.

Utilities gain the ability to closely monitor power quality (voltage blinks, sags and swells) and instantly detect outages remotely. TUNet also delivers the data needed for TOU and dynamic billing programs in hourly intervals or more frequently if desired to support operational excellence, attentive customer service, and airtight regulatory reporting.

Surgical deployment of GE I-210+ meters integrated with Tantulus modules gives a utility the ability to prioritize deployment of remote disconnect enabled meters to specific customer segments or geographies or as part of a full scale advanced metering roll out. This allows the utility to quickly capture benefits and return on its technology investment.



Tantulus adds wireless, two-way communications and smart metering capabilities to the latest generation of GE solid state, singlephase energy meters. Combining GE's precise metering technology with Tantulus' multi-application data network establishes a high performance solution that supports the rich data requirements of utilities. The GE I-210+ meter features an integrated, factory installed remote disconnect / reconnect switch installed under the glass. It enables a utility to effectively address issues such as non-payments, seasonal shut-offs, and move-in/move-outs directly from the operations center via TUNet. This provides a rapid, reliable and financially practical way to stop and restart power without a site visit.

TANTALUS ADVANTAGES

- Remote Disconnect / Reconnect switch fully integrated inside meter; actions verified and recorded by TUNet
- 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
- 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
- Non-volatile memory maintains data during outages
- Patented GE algorithm enables utilities to detect inverted meters
- Factory installed Tantulus communications module fully contained under the meter cover
- Features Tantulus TruPush™ technology for instant, field initiated event notifications such as outage alerts or load shed success; no device polling required
- TC-1110-RD measures voltage from 85 to 130 V; accurate to $\pm 1\%$
- TC-1210-RD measures voltage from 170 to 260 V; accurate to $\pm 1\%$

GE I-210+ Meter Forms Supported

TC-1110-RD

- 1S 120V (Class 100)
- 12S / 25S 120V (Class 200)
- Power: 120 VAC from AC line mains
- Quiescent power: 1.9 watts

TC-1210-RD

- 1S 240 V (Class 100)
- 2S 240V (Class 100)
- 2S 240V (Class 200)
- 12S / 25S 240V (Class 200)
- Supply: 240 VAC from AC line mains
- Quiescent power: 1.9 watts

Approvals / Standards

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

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

Physical

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

