TANTALUS TC-1120-RD / 1220-RD

SMART METERING

Itron CENTRON® II TPM Controller

Smart communications for Itron's popular solid-state 120 V and 240 V meters

The Tantalus TC-1120/1220 fully integrates with the Itron CENTRON II residential metering platform to transform these devices into fully two-way wirelessly communicating smart meters via TUNet® - the industry's fastest and most robust smart grid network.

The TC-1120/1220-enabled CENTRON II provides utilities with a cost-effective means to upgrade one-way systems to a next generation smart grid platform while extending the useful life of existing ERT® assets.

By integrating CENTRON II solid-state meters into TUNet, Tantalus gives a utility the freedom to introduce advanced functionality where the needs are greatest or where the return on investment is most attractive.

This translates to maximum system-wide benefit and minimized costs.

Itron CENTRON II Residential Meters, Powered by TUNet

TUNet modules fit securely under-the-glass into CENTRON II meters. The 900 MHz radio modem delivers the rich data contained in CENTRON II meters direct to the utility via TUNet – the Tantalus Utility Network. The TUNet module reads directly from the register, which means there is no discrepancy between what is displayed on the meter and what is reported to the utility.

Advanced Residential Applications Powered by TUNet

Remote Disconnect Under-the-Glass

- Instant remote disconnect/reconnect capability
- Scheduled or on-demand remote service control

Reads ERT-enabled Devices

- Leverage existing ERT infrastructure seamlessly with TUNet
- Supports Electric, Water, and Gas ERTs

Better information leads to more accurate billing, greater reliability, and faster repairs. TC-1120 and TC-1220 modules eliminate the need to dispatch field crews to investigate every issue and provide CSRs with the abilty to respond quickly and knowledgeably to customer inquiries. The result is improved 24/7 operational performance, minimal off-cycle reads, and faster customer service on every front, from clarifying statements to addressing power quality issues.

Tantalus

TC-1120/1220 FEATURES

- Fully factory-integrated smart meter platform
- Remote disconnect/reconnect under the glass; integrates with Itron C2SXD meter
- Supports ERT readings for electric, water, and gas
- Reports bi-directional energy and demand, voltage, and outage
- Direct Register Read
- TRUPush™ for instant, field-initiated event notifications
- Measures voltage from: TC-1120: 85 to 130 V; accurate to ±1% and TC-1220: 170 to 260 V; accurate to ±1%
- Under-the-glass design fits into new or existing CENTRON II meters
- Non-volatile memory maintains data during outages
- Automatically negotiates optimal communications path
- Supports Badger Orion water reading capability
- Supports Net Metering

TC-1120/1220 BENEFITS

- Factory integrated design speeds deployment
- Eliminate truck rolls and service time via real-time remote disconnect/reconnect
- ERT support provides the option to easily and economically extend asset life
- Live reports of voltage sags/swells/blinks help ensure high power quality
- Instant field reporting ensures maximum system visibility and quicker response
- On-request reads allow CSRs to respond to inquiries more quickly
- TUNEup® over the air firmware upgrade, programming, and control
- Intelligent networking enables endpoints to independently optimize communication network navigation - results in more reliable and accurate reads

PRODUCT SPECIFICATIONS

Meter Forms Supported

- TC-1120 (120 V): 1S, 3S, 12/25S
- TC-1220 (240 V): 2S, 3S, 4S

Radio

- Frequency range: 902-928 MHz ISM Band
- TUNet TRUPUSH Technology
- Vectored Channels: 64,000

Power

- Supply: 120 VAC from AC line mains (TC-1120)
- Supply: 240 VAC from AC line mains (TC-1220)
- Frequency: 60Hz

Physical

- Operating temperature range: -40° to +85° C / -40° to +185° F
- Operating humidity range: 0% to 95% non-condensing

Approvals / Standards

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

www.tantalus.com | 919.900.8970