

TANTALUS TR-1905

Streetlight Network Device

Quick-mount wireless network repeater/collector



The TR-1905 is a versatile TUNet LAN repeater designed as a low-cost and easily installed range extender for localized pockets of challenging coverage areas

The unit can be quickly mounted directly onto the top of any standard streetlight using ANSI standard 136.10 twist-lock connectors where it draws power from the existing photocell connector, eliminating the need for external wiring.

The TR-1905 quickly extends coverage to small or remote areas, thus strengthening the integrity and capacity of the entire TUNet system.



LAN REPEATER RANGE EXTENDER/COLLECTOR

The TR-1905 Streetlight Network Device provides two-way LAN communications into pockets of low connectivity in a small and easily deployed package. It provides an economical means to extend radio coverage while simultaneously acting as a collector for field devices. Installation can be completed in minutes with no additional wiring necessary. In overlay deployments, the TR-1905 can also act as a collector for field assets such as Itron ERT® or Badger Orion® devices. Incoming messages from 900 MHz endpoint devices are also relayed without additional hardware. This provides a simple way for a utility to enhance range and functionality without re-engineering the network. The TR-1905 collects and transmits messages to and from individual or groups of LAN devices such as TUNet®-enabled smart meters.

This translates to maximum deployment flexibility at minimized costs.

TANTALUS ADVANTAGES

- Provides medium range communications coverage anywhere there is a streetlight available
- Enables a utility to surgically deploy endpoints anywhere without substation constraints
- Can be installed on any streetlight, security light, or parking lot light using an ANSI 136.10 photocell
- Quick installation with no additional wiring required
- Small size, rugged weather-proof construction
- Secure, NEMA 4X when used with NEMA 4X photocell
- Features Tantalus TRUPUSH™ technology for instant, field initiated event notifications such as outage alerts or load shed success; no device polling required
- Communicates directly with Itron 60W, 100W, 100G, and R300 series ERT modules as well as Badger Orion water meters
- Supports ANSI 136.10 plug specification; forward compatible with future 5 blade female specification

LAN Radio

- Frequency range: 902–928 MHz; license exempt
- Transmitter power: 0.8 watts
- Antenna: Integrated 0dBi omni (EIRP +29 dBm)

Power Input

- Supply: 90 to 305 VAC at 50/60 Hz
- Quiescent consumption: 4 watts

Physical

- Dimensions: 5.9" DIA x 2.8" H
15 DIA x 7 H cm (installed)
- Weight: 0.75 lbs / 0.34 KG

Environmental

- Operating temperature range: -40° to +149° F / -40° to +65° C
- Operating humidity range: 5% to 95% non-condensing

Approvals / Standards

- FCC for CFR Title 47 Part 15b
- ANSI C136.10
- NEMA 4X hose/dust proof if installed with appropriate photocell