TESLA SOLO AMI ENDPOINTS FOR WATER

We've got you covered.

Tesla Solo (Solo) AMI water endpoints allow you to read meters from the office. They use a 450-470 MHz transceiver to send and receive information to data collectors over a Licensed Private Network (LPN). They automatically migrate between drive-by AMR and read from the office AMI with no programming. Solos come configured from the factory and do not require any additional setup on site. The plug-and-play design makes them fast and easy to install. The endpoint housing design allows for pit or wall installation with no change in products.

Exceptional Range

Tesla Solo endpoints offer exceptional range, while eliminating network RF signal collision. They can communicate with Tesla Fixed Network Collectors (FNC) up to 3.5 miles away. FNC Repeaters can communicate with FNC Base Stations up to 10 miles. As a general rule of thumb, operating in the 450-470 MHz band affords Solo endpoints 400% more range than that of unlicensed 900 MHz systems.

Greater range to Fixed Network Collectors translates directly into improved coverage. Cost is lowered by reducing the number of FNCs needed to read the meters and performance is raised by increasing the number of successful transmissions to LPN infrastructure.

Long-Term Network Performance

Meter pits tend to fill up with materials that block RF signals. Solo endpoints have a low-profile lid mount design that brings the LPN omnidirectional antenna above the mud, water, and depths of the meter pit environment. Removing the opportunity for the meter pit to block the radio signal generally improves the total range of Solo endpoints by up to 250% over technologies that use antennas built in the register, even if they use the same 450-470 MHz band. The mount in the lid design keeps the antenna above dirt and water that will eventually fill a meter pit which helps maintain network performance over time.

Super-Duty Construction

To ensure a long-life cycle, Solo endpoints are solid state devices built to be completely submerged for their entire service life without danger of water intrusion. They are designed for the toughest environments and extreme temperatures. Firmware can be updated at any time after installation over the air (OTA) for future feature additions and bug fixes.

Encoder Capability

While RG3 offers a battery-free analog encoder and a universal encoder that can retrofit any meter with a removable register, Solo endpoints work with any wired make or model encoder register of any manufacture that use the industry standard UI-1203 communication protocol. They also have the capability to detect most major manufacturer encoder register brands and utilize extended protocols if offered. They are perfect for upgrading older systems from walk-by or drive-by to read from the office AMI.

Long-Life Rugged Design

- IP68 Environmental Rating for the highest protection against the meter pit environment.
- Ultra rugged 100% solid-state design with no moving parts.
- Fully potted, perfectly tuned, high surface area PCB antenna for excellent propagation.
- Mount in lid antenna for increased range and network stability.
- 20-year warranty (10-year full / 10-year prorated).

Migratable Between AMI and AMR

- Solo endpoints automatically migrate between drive-by AMR and read from the office AMI.
- Add a data collector and your system will read AMI from the office.
- If no collector is in range, you can read your system by AMR drive-by.
- 120 days of hourly reads stored in the endpoint for data redundancy.

Two-Way Communication

- Secure, encrypted, true two-way communication provides greater functionality.
- Time synchronous RF protocol expands efficiency.
- On Demand Reads assists in billing inquiries.
- Near real-time alerts and alarms improve customer service.
- Remote Over the Air (OTA) updates increase endpoint and system longevity.

Plug-and-Play Installation

- Solo installation is quick, easy, and requires no programming.
- Endpoints are pre-configured at the factory for immediate deployment.
- No expertise needed. Install, record data, and move on.
- Automatic successful network communication verification after installation.
- Endpoint serial numbers are barcoded to reduce human data errors.

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