

Water and Gas

Meter Interface

Proven

More than 500,000 MeshPlus® meter inserts and interfaces have been successfully deployed internationally.

Hybrid 2-way Drive-by and Fixed Mesh Network

- Deploy first as drive-by and later upgrade to fixed mesh network using the same meter interfaces/inserts.
- 2-way 902-928MHz FHSS drive-by delivers maximum range and penetration.
- True battery fixed mesh network eliminates the need for towers and AC-powered repeaters. Every meter is also a repeater!
- Fixed mesh network is self-forming and self-healing. Meters automatically discover and join the network.

AMR Capabilities

- Log meter readings hourly or daily
- Stores up to 1 year of hourly readings
- Configurable reporting: hourly, 4 hours, daily, etc.
- Detect/report leak, tamper, low battery
- Water conservation monitoring and reporting

Meter Agnostic

- pulse registers
- dual-pulse registers
- encoded registers using most common protocols including:
 - water: ABB, Actaris, AMCO, Badger, Neptune, Sensus
 - gas: Actaris, Rockwell, Schlumberger, Sprague
- Utilities can mix new meters with installed base

Hardware Integration

- Small footprint easily adapts to custom enclosures
- Compact and flexible antenna designs
- Branding added to PCB as required
- Powerful 32-bit CPU with extensive I/O
- Operating temperature: -40°C to +85°C

Firmware Features

- Automatically detects connected meter
- 128-bit encrypted communications
- Patented over-the-air (OTA) firmware updates
- Advanced forward error correction (FEC) extends effective RF range
- 32-bit CRC ensures accurate readings

