GFlow™

Wireless Meter Reading Radio Module

Wireless automatic meter reading solution for industrial, commercial and residential deployments

GFlow is an advanced telemetry wireless product for utility metering applications designed for industrial, commercial and residential deployment. The GFlow is based on GT&T's advanced ULP RF technology - low cost, long range, ultra low power, and provides optimized wireless networking capabilities. GFlow is ideally suited for building large-scale metering networks.

BENEFITS

The highly optimized & rugged design of GFlow™ makes the device ideal for markets with mass deployment volume and severe environmental constraints. It enables customers to have fast access to real-time metering data, and automatic alerts for leaks, thresholds, and battery level. Designed for RMR applications, it includes tamper detection features and multiple meters input to reduce investment cost and increase speed and ease of deployment.

- Fast wireless access with battery life up to 15 years
- Programmable events, thresholds, and profiles
- Records meter index and event dates
- Automatically transmits critical alerts
- Compatible with a wide range of meters
- Long range and resistance to obstacles for use in hard-to-reach places
- 2-way end-to-end communication for full remote system administration
- Cost-effective solution for high volume deployment

FUNCTIONAL FEATURES

- Intervention-free operation up to 15 years (daily recording, with average of one transmission per week)
- Inputs for up to 4 meters
- Backflow management (on meters with 2 pulse inputs)
- Digital debounce input filtering
- Programmable input frequency: from 2Hz with debouncing up to 8Hz without debouncing
- Programmable internal data logging, measurement period, and threshold alarms
- 2-way communication
  - Transmission on request by mobile or fixed hardware (handheld PC, PDA, server, PC)
  - Automatically transmits critical alerts: cable damage, tampering, backflow, leaks, and low batteries
- Date and time management with day and night configuration
- Easy plug and play installation with GTelemetry software suite
- Power consumption optimized by sophisticated sleep mode management
  - 15 µA average operating current with fast 1 second access time

TECHNICAL CHARACTERISTICS

- Radio range: up to 1 km outdoor LOS and 200m indoor
- Resistant to RF interference – sophisticated FHSS, data interleaving, BCH(31,21) mechanisms
- Flexible wireless mesh networks of unlimited in size
- 2-way links with mobile and fixed network control points
- Programming via direct wireless or remote network connection
- Peer-to-peer, broadcast, polling, repeater modes
- Tree, star, and mesh network topologies
- 433/868/915 MHz ISM Bands
- EN300-220-1, FCC15-249, & FCC15- 247 compliant
- EMC compliant with EN 300-683

ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS

- Operating temperature: [-20°C,+70°C]
- IP65 or IP68 casing
- Dimensions (HxLxW): 12 x 4 x 3 cm
- Weight: 110 to 160 g