ARB® UTILITY MANAGEMENT SYSTEMS™

NEPTUNE TECHNOLOGY GROUP

R900G Remote Mount Endpoint

KEY FEATURES

- High output power
- No FCC license required
- Environmentally protected electronics
- Field-replaceable battery
- Long-life lithium battery with capacitor
- 20-year warranty (10 full/10 prorated)

KEY BENEFITS

- Improves meter reading accuracy and efficiency
- Superior performance even for "hard-to-read" meters
- Increases meter reader safety
- Minimizes meter read time
- Enhances customer care
- Reduces cost of ownership

Neptune's R900G family of radio frequency (RF) meter interface units (MIUs) is compatible with various natural gas meters. The R900G MIU provides the same field-proven R900® technology for natural gas meters that is in use in over six million battery-powered endpoints and provides the backbone of Neptune's ARB® Utility Management Systems™.

The R900G MIU combines high-power, unlicensed 900 MHz, frequency-hopping, spread-spectrum technology with an easy-to-install platform to meet the performance and application requirements of any size utility. The R900G MIU provides customers with a reliable and economical RF meter reading solution through improved meter reading accuracy and efficiency, increased meter reading safety, and enhanced customer care. The R900G provides customers with the best life cycle value by offering high output power to maximize range and read success rate while reducing meter reading times, all with a twenty-year warranty on the entire MIU.

The newest version of the R900G is the R900G Remote Mount which is designed for use in applications where a Form-A "switch closure" type pulse output is provided by the meter. Typical applications include PTZ volume correctors, solid-state pulsers, and retro-fit pulse output devices. During installation, the R900G Remote Mount MIU is programmed with input pulse weight and current gas meter reading so that account history is maintained. The R900G Remote Mount MIU encodes gas consumption from the gas meter and transmits the consumption data and MIU ID number to a handheld or mobile data collection device.

TECHNICAL SPECIFICATIONS

- Electrical Specifications:
  - Power: D-cell, Lithium battery with capacitor
- Transmitter Specifications:
  - Transmit period: Every 14 seconds
  - Transmitter channels: 50
  - Channel frequency: 902 to 928 MHz
  - Output power: Meets FCC Part 15.247 (spread spectrum)
  - Product identification: Numeric and bar coded MIU ID number
- Environmental Specifications:
  - Operating temperature: -22°F to 149°F (-30°C to 65°C)
  - Storage temperature: -40°F to 158°F (-40°C to 70°C)
  - Operating humidity: 0 to 95% non-condensing
- Regulatory and Standards:
  - FCC Certification: Part 15.247
  - Safety approvals: Intrinsically safe per FM and UL Class I, Division 1, Groups C and D
- Physical:
  - Materials: Polycarbonate housing
- Pulse Input Specifications:
  - Open Collector
  - Wetting voltage 3.6 VDC
  - Minimum pulse width 125 ms
  - Maximum input frequency 4 Hz
- Wiring Specifications:
  - Color coded wiring for easy installation

Black Wire = Ground

Red Wire = Positive Terminal

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