

ENHANCED R900®

WALL OR PIT MIU

R900 Wall MIU

The R900[®] MIU provides water utilities with a reliable and economical RF reading solution.



BUILD ONTO YOUR EXISTING TECHNOLOGY INVESTMENT

As part of Neptune's R900[®] System, the R900[®] meter interface unit (MIU) was designed for flexibility. Like its fellow system components, the R900 MIU works seamlessly with prior generations of equipment. At the same time, it allows your utility to incorporate innovations as you need. A single radio frequency unit that can transmit meter reading data using any reading method – walk-by, mobile, or fixed network – the R900 MIU never has to be reprogrammed. That makes migrating to new technologies simple whenever your utility is ready to implement them. When it's time to add new features or functionality, you can do it at your own pace, confident of continual system support without stranded assets.

CONSERVE RESOURCES, SIMPLIFY OPERATIONS

With the pressures your utility faces, Neptune knows you don't have time, personnel, water, or revenue to waste. That's why we designed the R900 MIU and the rest of the system for ease of use. In addition, the R900 MIU's interleaved, high-power, 1-watt fixed network message reduces infrastructure costs while allowing reading in any mode – without separate reading systems, site visits, or any type of MIU reconfiguration. The R900 MIU provides fixed network transmission capability at all times, while it also transmits readings for walk-by or mobile methods. Making operations even easier, the user-friendly, intuitive R900 System design requires only minimal training, providing you flexibility to adapt to changes in your workforce and reallocate staff to different departments as needed.

REDUCE COMPLAINTS, DELINQUENCIES, AND WRITE-OFFS

Neptune's R900 MIU greatly improves access to meter readings, while delivering detailed consumption profile information as well as alerts for leak or backflow, helping your utility more proactively identify and resolve customers' questions. This accurate, timely data can be used to head off high bill complaints, reduce delinquent payments, and eliminate write-offs.

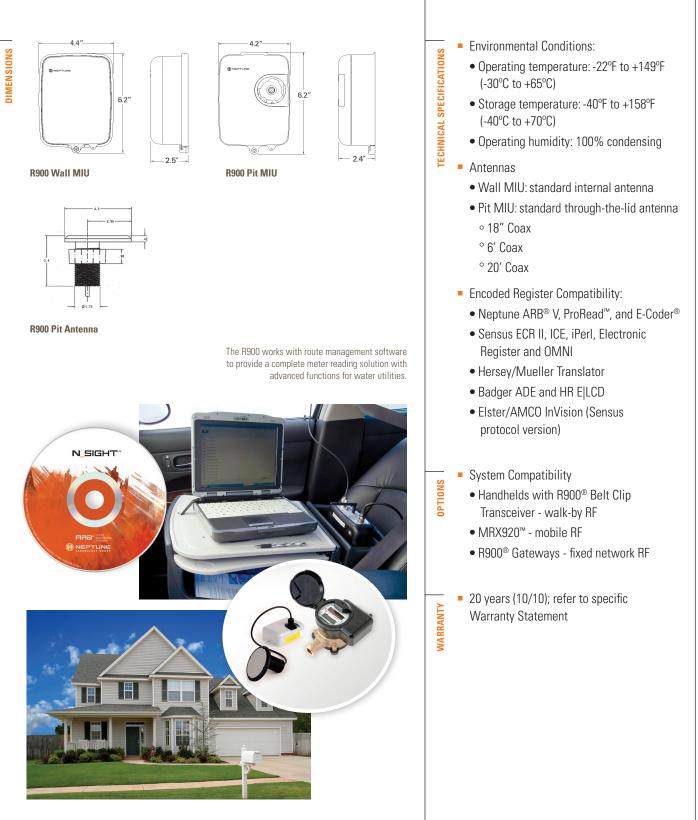
Because detailed data logging information from the last 96 days is always available, just waiting to be transmitted by the R900 MIU when needed, personnel can take care of a customer's issue then and there, in a single site visit. Not only can the data boost efficiency and customer service, but it will also help your utility make better-informed decisions going forward. Facilitates Migration to AMI:

KEY BENEFITS

- NEW 1 Watt fixed network message reduces infrastructure costs
- Interleaved mobile and fixed network messages facilitate migration without changing the "modes" in the MIU
- Reduces Non-Revenue Water:
 - Provides leak history/diagnostics
 - Enables proactive leak notification
 - Provides hourly consumption data
 - Improves meter reading accuracy
 - Eliminates estimated reads
- Identifies Potential Theft:
 - Tamper detection
 - Reverse flow detection
 - Identifies significant periods of zero consumption
- Simplifies Installation Process
 - Easy to install/no programming required
 - Reduces labor cost
- Electrical Specifications:
 - MIU power: Lithium battery with capacitor
- Transmitter Specifications:
 - Two-way MIU

TECHNICAL SPECIFICATIONS

- Transmit period (interleaved mobile and fixed network messages):
 - Standard mobile message every 14 seconds at 100 mW
 - \circ Standard fixed network message every $7 \frac{1}{2}$ minutes at 1 Watt
- FCC verification: Part 15.247
 - Transmitter channels: 50; frequencyhopping, spread-spectrum
 - ° Channel frequency: 910 to 920 MHz
- Encoder register reading interval:
- Every 15 minutes
- Data logging interval:
 - 96 days of hourly data



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