



ProCoder™)R900i™

Why did Neptune® combine these products into a single housing?

Customers requested ways to reduce both installation costs and the potential for tampering. The ProCoder™)R900i™ meets both of these needs.

Where is the R900® MIU?

The R900 radio board has been combined with the ProCoder board inside the register housing. (The “i” stands for integrated.)

How does the radio performance compare to a standard R900 wall MIU?

The performance is similar to the performance of an R900 wall MIU installed in a basement, below grade application. An R900 wall MIU installed 4’ above grade on the exterior of a home will exceed the performance of below grade inside set MIUs.

Does the ProCoder)R900i feature the same E-CoderPLUS functions and R900 protocol as an E-CODER®?

Yes. The ProCoder)R900i is able to provide the same customer service value-added data, such as leak, tamper, and reverse flow detection.

My ProCoder)R900i pit version unit contains an internal antenna. Can I upgrade to a through-the-lid antenna to further increase my range?

Yes. The pit version of the ProCoder)R900i comes standard with an internal antenna to provide the utility with an easy installation. It also provides the flexibility to upgrade from the internal antenna to the existing R900 through-the-lid pit antenna if additional range is desired.

Can the ProCoder)R900i inside version be installed in pits?

No. An inside version installed in a pit will be VOID of warranty.

Is the battery replaceable on the ProCoder)R900i?

No. The unit is fully potted to protect against water intrusion. The battery is covered under warranty for up to 20 years prorated, at which point you would install a new integrated unit.

Does the ProCoder)R900i have a battery inside to power the register?

No. The ProCoder)R900i registers water consumption using no external power supply and no internal battery. The ProCoder)R900i utilizes power from the radio battery to register consumption for a remote read.

Will the ProCoder)R900i reduce the battery life of the MIU?

No. The power requirement is so minimal there will be no noticeable effect on the battery life of the MIU due to extremely low-power electronics.



How is the ProCoder)R900i different from the E-CODER®)R900i?

The ProCoder)R900i boasts an 8-wheel mechanical odometer wheel bank as opposed to that of the E-CODER LCD screen. Additionally, the ProCoder)R900i utilizes “non-contact” optical encoder technology to absolutely encode the mechanical odometer reading. It also features a high-resolution sweep hand for leak detection and flow direction. Just like the E-CODER)R900i, the ProCoder)R900i will transmit PLUS flags. PLUS flags include leak, tamper, and backflow.

The ProCoder)R900i has a mechanical odometer wheel bank. How are the digits encoded and what makes the register absolute?

The ProCoder)R900i encodes the digits by scanning the number wheels with LED technology. This allows for the detection of the exact (absolute) position of each number wheel. The encoded absolute register read can then be transmitted by the ProCoder)R900i.

Why does the ProCoder)R900i have a mechanical sweep hand?

The ProCoder)R900i features a sweep hand to provide enhanced resolution beyond 8 digits, which can be valuable in identifying leaks and direction of flow when viewing the register directly. It can also help reduce error in meter testing.

Why does the ProCoder)R900i have a black background encompassing some of the wheels on the wheel bank?

This cosmetic feature was added to assist meter readers in identifying the most significant digits for a visual meter reading quickly and easily.

Is the ProCoder)R900i networkable for compound meters?

No. Due to the wireless design, a separate ProCoder)R900i must be installed on each side of a compound meter assembly. Note that one ID number is printed on each label.

Does the ProCoder)R900i unit provide data logging capabilities?

Yes.

How many days of data logging information is stored in the ProCoder)R900i?

The ProCoder)R900i stores consumption in hourly intervals for a rolling total of 96 days. This is equal to 2,304 hourly intervals of consumption.

What products do I use to capture the data logging data?

An R900® Belt Clip Transceiver (walk-by environment) or MRX920™ (mobile environment) is needed to activate and capture data logging data. Daily and hourly reading and consumption data can be viewed in graphical or report format. Share this information in the field with data presentment in NGO™, handheld or with MX900. The N_SIGHT® host software also provides data logging reports once data is uploaded from the collection device.

How long does it take to retrieve the data from the ProCoder)R900i?

After activation, it typically takes a couple of minutes for the ProCoder)R900i to transfer all 96 days of hourly data to either the Belt Clip Transceiver or the MRX920.

Does the data logging feature have an impact on the battery life of my ProCoder)R900i unit?

Generally not. However, excessive data logging will adversely impact the ProCoder)R900i's 20-year prorated warranty.

Will my current host software be compatible with data logging?

All currently supported versions of N_SIGHT include data logging presentment.

What type of graphing functionality is available in N_SIGHT host software?

N_SIGHT host software has the ability to graph all 96 days of daily and hourly consumption in both bar and line graph functionality. Using the bar graph, there is a quick drill-down feature from daily to hourly, including a toggle button to return to daily.

Will I be able to determine when a leak flag or reverse flow flag actually begins?

Yes. Both the leak and reverse flow flags are captured in the data logging data. These flags can be viewed either on the usage graphs or in report format in daily or hourly interval detail.



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neptunetg.com

Neptune Technology Group

1600 Alabama Highway 229

Tallahassee, AL 36078

800-633-8754 f 334-283-7293