Cellular ProCoder™)R900*i* ™

Why did Neptune® combine these products into a single housing?
Customers requested ways to reduce both installation costs and the potential for tampering. The cellular ProCoder™)R900*i* ™ meets both of these needs.

Where is the R900® cellular endpoint?
The R900 cellular radio board has been combined with the ProCoder board inside the register housing. (The "i" stands for integrated.

What networks support the cellular ProCoder)R900*i*?
The cellular ProCoder)R900i is supported by FirstNet® or Verizon® cellular network and their respective roaming partners to ensure robust coverage and secure, reliable delivery of AMI data.

How often is data sent from the cellular ProCoder)R900*i* to Neptune® 360™?
The endpoint interrogates the meter register every 15 minutes. This data is stored in the cellular endpoint data log and is transmitted via the cellular network to Neptune 360 every six hours.

Does the cellular ProCoder)R900*i* require any field programming?
No, the cellular ProCoder)R900*i* only requires a magnet swipe along the top of the housing to be activated.

How do I verify that the cellular ProCoder)R900*i* is connected to the cellular network once installed?
Connectivity can be verified using the Neptune 360 Field Manager app. The Field Manager app will display information regarding the cellular network status and meter reading from the connected register. This displayed information can be used to verify cellular signal strength at the installation location.

How do I download and install the Field Manager to my iOS or Android Device?
Contact Neptune Customer Support to obtain a license key and directions for installing the application on your device.

How does the radio performance compare to a standard cellular external antenna pit endpoint?
The performance is similar to the performance of a cellular external antenna pit endpoint installed in a below grade application.

Does the cellular ProCoder)R900*i* feature the same functionality as the cellular endpoint?
Yes. The cellular ProCoder)R900*i* is able to provide the same customer service value-added data, such as leak, tamper, and reverse flow detection.

Is the battery replaceable on the cellular ProCoder)R900*i* ?
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 cellular ProCoder)R900*i* have a battery inside to power the register?
No. The cellular ProCoder)R900*i* registers water consumption using no external power supply and no internal battery. The cellular ProCoder)R900*i* utilizes power from the radio battery to register consumption for a remote read.

Will the cellular ProCoder)R900*i* reduce the battery life of the endpoint?

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

The cellular ProCoder)R900*i* has a mechanical odometer wheel bank. How are the digits encoded and what makes the register absolute?

The cellular ProCoder)R900*i* 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 every six hours by the cellular ProCoder)R900*i*.

Why does the cellular ProCoder)R900*i* have a mechanical sweep hand?

The cellular ProCoder)R900*i* 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 cellular ProCoder)R900*i* 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 cellular ProCoder)R900*i* networkable for compound meters?

No. Due to the wireless design, a separate cellular ProCoder)R900*i* must be installed on each side of a compound meter assembly. Note that one ID number is printed on each label.

Does the cellular ProCoder)R900*i* unit provide data logging capabilities?

No, the cellular ProCoder)R900i does not support a local data log unload. Instead, the usage profile information can be accessed remotely from Neptune 360. Additionally, the cellular ProCoder)R900i stores up to 96 days of data to backfill readings to Neptune 360 in the event of a cellular network interruption. Once communication is restored, any readings that are stored and have not been transmitted will be queued and transferred via the cellular network so there are no missed readings.

What type of graphing functionality is available in Neptune 360?

Neptune 360 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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