



R900[®] Cellular Endpoint

What is the R900[®] cellular endpoint?

The Neptune R900 cellular endpoint is a meter interface unit that utilizes a cellular network to transmit data to Neptune[®] 360[™]. A network infrastructure is not required, eliminating the operational and capital burden that can come with having a traditional RF fixed network. The cellular endpoint supports targeted or full-scale deployments, providing a solution that can be tailored to each utility's unique needs.

What networks support the cellular endpoint?

The cellular endpoint will use any major Canadian carrier available to achieve maximum possible network coverage.

Does the cellular endpoint require any programming?

No, the cellular endpoint auto-detects the type of register it is connected to and only requires a magnet swipe along the endpoint housing to be activated.

With what registers will the cellular endpoint function?

The cellular endpoint is part of the Neptune R900[®] System and is compatible with the following encoder registers: Neptune[®] ARB[®] V, ProRead[™], ProCoder[™], E-CODER[®], MACH 10[®], KROHNE WATERFLUX 3070, Sensus (Invensys) ECR II, ECR III, ICE, iPerl, Electronic Register, OMNI, Hersey/Mueller Translator, Badger ADE, HR E|LCD, E-Series.

Please refer to the latest product sheet for any updates to the compatibility list.

If I change the register attached to the cellular endpoint do I need to wait to get an updated reading?

No, magnet swiping the endpoint will force it to interrogate the register and initiate network transmits of the data. Any subsequent readings after the magnet swipe will contain the latest reading from the new register.

How often is data sent from the cellular endpoint to Neptune 360?

The cellular endpoint interrogates the meter register every 15 minutes. This data is stored in the endpoint data log and is transmitted via the cellular network to Neptune 360 every six hours.

Does the endpoint allow for custom configuration of when and how often it sends data?

Yes, the cellular endpoint users can now schedule the four daily cellular transmissions, these schedules are managed via the COMMS SCHEDULER function in Neptune 360.

Is a local data unload of the endpoint's data log supported?

No, the endpoint does not support a local data log unload. Instead, usage profile information can be accessed remotely from Neptune 360. Additionally, the endpoint stores up to 96 days of data to backfill readings into 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 that there are no missed readings.

Does the cellular endpoint support mobile messages?

Yes, the cellular endpoint will transmit a mobile message every 30 seconds after 24 consecutive hours of unsuccessful cellular transmission. After successful cellular transmission, the endpoint will stop transmitting the mobile message.

How is the cellular endpoint activated?

The endpoint is shipped in a "sleep" mode and requires a magnet swipe along the left side of the endpoint to activate and begin transmitting meter reading data.

Is the battery replaceable on the cellular endpoint?

No, the cellular endpoint is fully potted for field reliability and there is no mechanism for field replacement of the battery.

How can I distinguish the cellular endpoint from other R900 System endpoints?

The cellular endpoint can be distinguished from other R900 System endpoints in the following ways:

- Pit units with an internal antenna have a distinct mounting arm with a circular hole through it that extends from the side of the endpoint's housing.
- The label on the endpoint housing for all units includes the endpoint ID number and required regulatory information.



Can the cellular endpoint be connected to two separate registers?

No, the cellular endpoint does not support networking and can only be connected to a single register.

How do I verify that the cellular endpoint is connected to the cellular network once installed?

Connectivity can be verified by using the Neptune 360 Field Manager app. The Field Manager app will display information regarding the endpoint's cellular network status and meter reading from the connected register. This displayed information can be used to verify that you have properly wired the endpoint to the register along with a verification of 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 to your device.

Is the Field Manager app required for installation?

No, the Field Manager app is not required for endpoint installation, but it is useful to verify a valid meter reading and good cellular network connectivity at the time of installation.

Why is the cellular endpoint transmitting all colons (:::):)?

The endpoint is not detecting a register. Check all wiring connections and magnet swipe the endpoint to force a register interrogation.

What head-end software is supported by the cellular endpoint?

The cellular endpoint is supported by Neptune 360 only.

Does the cellular endpoint support remote firmware updates?

Yes, the endpoint supports remote firmware upgrades, initiated from Neptune 360, for future enhancements and bug-fixes.



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