



MI.NET[®] NODE

LoRaWAN[®] Class B Meter Interface Unit

FEATURES

Two Way Communications: The Mi.Net[®] LoRaWAN (LW) meter interface unit from Mueller Systems, provides a direct connection to all Mueller water meters equipped with an encoder register. The primary function of the Mi.Net LW node is to provide two way communications between the LoRaWAN Network Provider and the meter.

System Components: Information retrieved from a water meter is stored temporarily within the node's non-volatile internal memory. As a default, the Mi.Net LW node will transmit hourly meter data at a predetermined time once per day to the network. On demand reads can be requested at any point in time and are typically delivered within seconds. The Mi.Net LW node is designed to provide features specifically needed to support low cost, secure bi-directional communications for IoT, including Smart City applications.

Construction: The Mi.Net LW node unit incorporates multiple moisture barriers to address concerns over moisture intrusion even in meter box environments. An o-ring sealed thermoplastic enclosure, coated electronic board and potting compound provide a water resistant package that permits Mueller Systems to offer a 20 year warranty on the Mi.Node unit. A large lithium ion battery provides plenty of power over the life of the unit.

Scalable and Upgradable: The Mi.Net LW node's functionality can be upgraded remotely. Mueller proprietary firmware allows the Mi.Net LW node to be upgraded autonomously. The Mi.Net system integrated with the Mi.Net LW node can be scheduled for an upgrade at one time and the system will notify the user when the process is complete.

The Mi.Net LW node seamlessly connects directly to the Mueller Systems 420RDM (Remote Disconnect Meter) for easy and secure actuation of the valve through the Sentryx[™] Water Intelligence user interface.



MATERIALS AND SPECIFICATIONS

Class B LoRaWAN [®] compatible for fast response times, on-demand reads in seconds, not hours
Interfaces with water meters that output a protocol same to the Mueller Systems Solid State Register
Logs and stores up to 120 days of hourly data in internal memory
RF antenna contained inside Mi.Node unit enclosure
FCC compliant
Mi.Net LW Node wire lengths to Mueller register: 5': 25'
Power Output: 1W
Power Source: D Cell Lithium Battery
Transmit Frequency: 902 MHz - 928 MHz
Data Integrity Verified with every data message
Temperature Range: -40°F to + 158°F (-40°C to + 70°C)
Humidity: 0% - 100% condensing
Dimensions: 6 5/8" high x 2 15/16" wide x 3 3/8" deep
Automatically detects encoder meter type connected
No external power supply required for operation
Notifies the system of low battery level for preemptive maintenance
Tamper and leak notification

For more information about Mueller or to view our full line of water products, please visit muellersystems.com or call Mueller customer service at 1.800.423.1323.

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