



CELLULAR NODE

AMI Fixed Network Meter Interface Unit

FEATURES

Two Way Communications: The Mueller Cellular Node is a meter interface unit that provides connection to all Mueller water meters equipped with an encoder register. The primary function of this AMI cellular node is to provide full two-way communication of meter reading data via a cellular network.

Construction: The Mueller Cellular Node incorporates multiple moisture barriers to eliminate concerns over moisture intrusion even in meter box environments. A permanently sealed thermoplastic enclosure, coated electronic board and potting compound provide a watertight package that will survive flooding. A large lithium ion battery provides plenty of power over the life of the unit.

Operation: The Mueller Cellular Node is shipped in a sleep mode. Once activated, it collects read information from the register every hour as default, or more frequently if configured in Sentryx™ Water Intelligence Platform*. The node sends all read information, alerts, and checks for any remote disconnect meter (RDM) shutoff commands once per day. When the option is activated in Sentryx, a user can call the node for an on-demand read or operate an RDM shutoff valve immediately during a six-hour window.

Scalable and Flexible: For utilities serving connections across varied population density, AMR and fixed-based AMI are natural fit for urban areas, but less-so in rural, hard-to-reach areas where utility personnel safety is in question and there are not enough connections to justify the cost of setup and maintenance. The deployment of the Mueller® Cell Node allows the system to be connected significantly quicker without the need to pull out any existing encoded meters. By utilizing existing cellular networks, any delay such as meter reading is avoided and risk of lost or unbilled revenue minimized.

*Sentryx Water Intelligence is a digital services platform for water utilities to monitor, control and monetize water distribution networks.



MATERIALS AND SPECIFICATIONS

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| Utilizes LTE-M IoT network for secure data transmission |
| Interfaces with water meters that output a protocol like the Mueller Solid State Register |
| Logs and stores meter data in internal memory |
| Cellular antenna contained inside the polypropylene enclosure |
| FCC compliant |
| Node wire lengths to Mueller register: 5', 25' |
| Bare wire, Nicor, Itron in-line connector options |
| Power Source: D Cell Lithium Battery |
| Data integrity verified with every data message |
| Temperature Range: -40° F to + 158° F (-40°C to + 70°C) |
| Humidity: 0% - 100% condensing |
| Dimensions: 7 1/2" 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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