Data Sheet
WDS-10061-03

SmartPoint® 522M Module

Pit Set



Flexible Connections
Easily connects to TouchCoupler, Pulse, or Three Wire configuration that supports inline connectors. Multiple connector options minimize inventory requirements.

Benefits

- Easily receives input from either walk-by/drive-by or fixed-base collection device
- Controls both deployment and lifetime operation costs
- Compact installation that saves time, space and money - without reducing system performance
- Minimizes new infrastructure investment
- Enables effective leak detection

The SmartPoint® 522M Pit Set Module is a radio transceiver that provides water utilities inbound and outbound access to water measurement and ancillary device diagnostics via radio signal. It is designed for submersible, pit-set environments.

Multiple Connection Design

The SmartPoint 522M module utilizes TouchCoupler, the patented Sensus inductive coupling communication platform, to interface with the encoded meter. With TouchCoupler, the 522M can connect to the meter using existing two wire AMR installations instead of requiring utilities to access the meter to install a new three-wire connection. In addition, the 522M offers an option to connect to pulse meters and an option for three wire configured meters that incorporate inline connectors. This results in a fast, efficient and reliable connection at minimal cost.

Powerful Transmission, Flexible Platform

The SmartPoint 522M module functions as a walk-by/drive-by endpoint, fixed-base endpoint, or combination of the two. The 522M receives input from the meter register and remotely sends data to a walk-by/drive-by or fixed-base collection device. This flexibility increases utility data collection capabilities and streamlines operations.

The 522M's powerful, industry-leading two watt transmitter broadcasts over large distances and minimizes collection infrastructure. The 522M's migratable, two-way system platform can be updated without requiring personnel to visit each meter and/or inconveniencing customers. It easily migrates from walk-by/drive-by to fixed base by simply installing a Base Station.

Operation

In walk-by/drive-by mode, the 520M collects data and awaits an activation signal from the Vehicle Gateway Basestation (VGB) or Hand-Held Device (HHD). Upon signal receipt, it transmits readings, the meter identification number and any alarms.

As a fixed-base endpoint, the SmartPoint 520M module interacts with one or more strategically placed Base Stations located in the utility service area.

Top of the hour readings and other diagnostics are instantly forwarded to the Regional Network Interface (RNI)™ at time of transmission. The FlexNet® communication network provides unmatched reliability by using expansive tower receiver coverage of metering end points, data/message redundancy, failover backup provisions and operation on FCC primary use (unshared) RF spectrum.

Additional Features

The SmartPoint 522M module obtains hourly readings and can monitor continuous flow over a programmable period of time, alerting the utility to leak conditions. In addition, the 522M stores up to 840 consumption intervals (35 days of hourly consumption), providing utilties the ability to extract detailed usage profiles for consumer information and dispute resolution.

Specifications

Service	Pit set installation interfacing the utility meter to the Sensus FlexNet communication network. Unit requires 1.75” diameter hole in pit lid; fits pit lid thicknesses up to 1.75”
Physical Characteristics	Width: 4.43” x Height: 5.09” x Depth: 3”
Weight	1.0 lbs/16.0 oz
Color	Black
Frequency range	900 – 950 MHz, 8000 channels X 6.25 kHz steps
Modulation	Proprietary Narrow Band
Memory	Non-Volatile
Power	Lithium Thionyl Chloride batteries
Approvals	US: FCC CFR 47: Part 24D, Part 101C, Part 15 Licensed operation Canada: Industry Canada (IC) RSS-134, RSS-119
Operating Temperature	- 22° F to +185° F - 30° C to + 85° C
Operation	Single port
Installation environment	100% condensing, water submersible
Compatibility	TouchCoupler, Pulse register with inline connector, and Three Wire register with inline connector.
Warranty	20 years – based on six transmissions per day. Refer to Sensus G-500 for full warranty details.

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