



SmartPoint 512M-PLS

Non-Pit Set Module

The SmartPoint® 512M-PLS non-pit set module is a radio transceiver providing inbound and outbound access to water measurement devices and diagnostics by radio signal. The SmartPoint 512M-PLS module connects to pulse register meters that produce a pulse output in non-submersible, non-pit installations.

Operation

With its migratable, two-way communication ability, the M-Series SmartPoint functions as a walk-by/drive-by endpoint, fixed-base endpoint, or combination of the two. This flexibility increases utility data collection capabilities and streamlines operations. The SmartPoint 512M-PLS module receives input from a pulse register and remotely sends data to a walk-by/drive-by or fixed-base collection device. In addition, the SmartPoint 512M-PLS module provides the ability to interface to applications used in raw water intake and wastewater stations.

BENEFITS

- Easily receives input from either walk-by/drive-by or fixed-base collection device
- Delivers a fast, efficient, reliable connection at minimal cost
- Industry-leading two watts broadcast power
- Enables effective leak detection
- Tamper-proof alerts inform utilities of potential tampering

In walk-by/drive-by mode, the SmartPoint 512M-PLS module collects data and awaits an activation signal from the Vehicle Gateway Base Station (VGB) or Hand-held Device. Upon signal receipt, it transmits readings and the meter identification number.

As a fixed-base endpoint, the SmartPoint 512M-PLS module interacts with one or more strategically placed FlexNet® 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.

Powerful Transmission, Flexible Platform

The SmartPoint 512M-PLS module offers several advantages that control both deployment and lifetime operation costs. Its powerful, industry leading two watt transmitter broadcasts over large distances and minimizes collection infrastructure. After installing the SmartPoint 512M-PLS, its two-way system platform can be updated without requiring personnel to visit each meter or inconvenience customers.

Additional Features

The SmartPoint 512M-PLS module obtains hourly readings and can monitor continuous flow over a programmable period of time, alerting the utility to leak conditions. In addition, the SmartPoint 512M-PLS module stores up to 840 consumption intervals (35 days of hourly consumption), providing the utility with the ability to extract detailed usage profiles for consumer information and dispute resolution.

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SPECIFICATIONS

Service	Pulse base radio mounted (non-pit system/non-submersible) installation interfacing the utility meter to the Sensus FlexNet system.
Physical characteristics	Width: 5 9/16" x Height: 5 1/2" x Depth: 3"
Weight	1.13 lbs/18.08 oz
Color	Tan
Frequency range	900 - 960 MHz
Modulation	Proprietary Narrow Band
Memory	Non-Volatile
Alarms	Cut Wire, Tilt/Tamper detection
Power	Lithium Thionyl Chloride batteries with hybrid layer capacitor
Operating temperature	- 22° F to +160° F - 30° C to + 71° C
Options	Single port two-wire connection
Broadcast Power	2 watts; Over the Air firmware download
Broadcast Frequency	Programmable intervals 4 hours standard broadcast of the last 24-48 hourly reads On-Demand reading capable
Meter Reads	Programmable intervals Hourly reads standard; sub 1 hour MSR optional On-Demand reading capable
Pulse Width	15 to 75ms
Approvals	US: FCC CFR 47: Part 24D, Part 101C, Part 15 Licensed operation Canada: Industry Canada (IC) RSS-134, RSS-119
Warranty	20 years - Based on an average of 4 hour transmission rate with 5 firmware downloads over the life of the module. Refer to Sensus G-500 for warranty.



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SENSUS | 637 Davis Drive | Morrisville, NC 27560 | 800.638.3748

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