

For Commercial / Industrial Meters



DESCRIPTION

Application: The FlexNet SmartPoint wireless transmitter for gas AMI applications permits offsite meter reading via a licensed fixed base radio network. In addition to solving meter reading problems such as lockouts, entering unsafe meter locations, "curbside" reading estimates, estimated billing, and errors associated with manual meter reading methods, a fixed network provides benefits such as daily reads and status alerts.

Operations: The FlexNet SmartPoint transmitter is enclosed in a durable polycarbonate casing mounting under the existing top mount index. The SmartPoint module consists of a narrowband transmitter, magnetic sensors, and a mechanic meter interface that includes a shaft with a magnet. A handheld terminal is used to initialize operation. The SmartPoint transmitter monitors the meter and sends data back to the Tower Gateway Base Station (TGB) receiver at pre-defined and programmable intervals. TGB's are strategically placed in the utility service area to maximize reception. The readings are instantaneously transmitted to the Regional Network Interface (RNI). Transmitter messages contain meter reading data, status and relevant parameters such as index pressure and the number of dials. Messages are routed to a database, where the data gets formatted for export to billing, marketing and customer service systems.

Powerful Transmission: A significant advantage of the SmartPoint module is its powerful two-watt transmitter. The long range enabled by the strong signal and novel modulation techniques and high receiver sensitivity, minimizes the number of TGB's and provides optimal coverage at minimal deployment. FlexNet SmartPoint transmitters are powered by a replaceable Lithium battery pack, with an expected service life of 20 years with daily reads. Combining these features minimizes the overall lifecycle costs of the FlexNet system.

FlexNet Features: The FlexNet SmartPoint gas transmitter can read the meter in one hour intervals. This provides the utility with detailed data when events like usage disputes occur. The transmitter has the capability to store reading history up to 168 hourly reads, depending on the consumption of the meter, in the event a transmission does not make it to the TGB. This historical data is sent in the following transmission and the readings are stored on the RNI.



SPECIFICATIONS

SERVICE	Direct Mount
PHYSICAL CHARACTERISTICS	2.5" H x 6.38" W x 6.75" D
WEIGHT	1.2 lbs / 19.2 oz.
COLOR	Navy Grey
FREQUENCY RANGE	900 – 950 MHz, 8000 channels X 6.25 kHz steps
MODULATION	Proprietary Narrow Band
MEMORY	Non-Volatile
POWER	Lithium Thionyl Chloride batteries in conjunction with a hybrid layer capacitor (HLC)
APPROVALS	
US:	FCC CFR 47: Part 90, Part 24D, Part 101C, Part 15 Licensed operation
CANADA:	Industry Canada (IC) RSS-134, RSS-119, RSS-210
OPERATING TEMPERATURE	- 30° F to +150° F - 30° C to + 80° C
INSTALLATION ENVIRONMENT	The FlexNet commercial gas SmartPoint transmitter is designed for a direct mount to the meter re-using the meter index
COMPATIBILITY	Sensus (Rockwell, Equimeter, Invensys): R750, R1000, R1600, R3000, R5000, R10000, #2 1/2, #3, #4 American / Canadian Meter: AL800, AL1000, AL1400, AL2300, AL5000 Actaris (Sprague, Schlumberger): 675A, 800A, 1000A (Requires Actaris adapter P/N 80005901 available from Actaris)
WARRANTY	20 years – Based on four transmissions per day Refer to Sensus G-500 for warranty.