

Sensus Smart Gateway



Public service providers need timely data to make critical and prompt decisions for their communities. With the Sensus Smart Gateway, a battery-powered sensor interface, utilities can connect to a variety of applications in remote locations where there is no power or land-based communications available. Leveraging the FlexNet® communication network, the user interface application empowers utilities to remotely monitor pressures, temperatures, levels, and switches. Alarms can be transmitted and forwarded to utility systems or individuals allowing for expedient resolution. Additionally, data accumulation can be analyzed to develop new insights into operational conditions.

With two (2) 4-20 mA analog inputs and two (2) Form A digital inputs, the number of possible applications makes the Smart Gateway a flexible, powerful and cost effective device to gather information previously too difficult to obtain.

FEATURES

- Battery Powered
- FlexNet enabled
- Two (2) 4-20 mA analog inputs and two (2) Form A digital inputs per unit
- 15 minute data sampling reported six (6) times per day
- IP66 packaging for outdoor applications
- Mounting options for pipe or wall mounting
- Intrinsically Safe Class1 Div2
- Maintenance free for the life of the product
- Interfaces with other system infrastructure such as CMEP and Multispeak
- One (1) Year Warranty

Benefits

- Improves operational performance of the system.
- Enables proactive and preventative maintenance.
- Enables quick resolution of equipment failures.
- Decreases the need to deploy field crews.
- Maximizes return on investment.
- Supplements the existing SCADA system.
- Leverages the existing FlexNet network.
- No additional power line infrastructure is necessary.
- Prevents theft and tampering, and improves safety by communicating user-configured alarms.
- Facilitates flexible and scalable installation through the system, including remote locations.
- Cost-effective option for extensive data accumulation.

Applications

- Pressure readings
- Customer complaints resolution
- Hydraulic modeling
- Pressure modeling
- Fire flow testing
- Pressure reducing infrastructure monitoring
- Level measurements
- Tank/Aquifer/Reservoir monitoring
- Lift station monitoring
- Overflow monitoring
- Rain gauges
- Temperature readings
- Water and Gas Quality
- Security
- Vault doors
- Gates
- Valve positions
- Data Tracking
- Modeling
- Event responses
- Leak Detection

Smart Gateway

SPECIFICATIONS

Physical Characteristics	6.4" W x 4"H x 2.8"D	
Weight	1.5 lbs	
Color	Grey	
Frequency Range	900-950 MHz, 8000 channels x 6.25 kHz steps	
Modulation	Proprietary Frequency Band	
Power	D Cell Lithium Thionyl Chloride battery	
Operating Temperature	-22 °F to +185 °F/-30 °C to 85 °C	
Installation Environment	The Smart Gateway is designed for installation on a wall or pipe where it is not subject to water submergence	
Installation Kits	Pipe/Wall-Mount Wall-Mount Only Optional Multi-Cable	
Wiring Requirements	See Installation Guide	
Installation Kits	Pipe/Wall-Mount Wall-Mount Only Optional Multi-Cable	
Wiring Requirements	See Installation Guide	
Approvals	United States FCC Title 47 CFR: Part 24D Part 101C, Part 15	Canada Industry Canada (IC) RS-134 RSS-119

SENSOR SPECIFICATIONS

Utility Type	Pressure Accuracy	Temperature Accuracy	Water Level Accuracy	Output Settling Time	Operating Voltage	Current Draw	Zero Offset
Water	+/- 1.5% PSI	+/-1 °F	+/-2"	≤ 200 milliseconds	≥ 12.5 volts	2-Wire: ≤ 30 mA 3-Wire: ≤ 100 mA	≤ 6% mA
Gas	+/- .25% PSI	N/A	N/A				



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