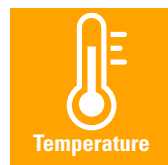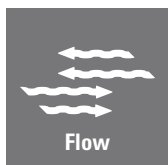# SENSERT™

SENSERT™ is a remote, cloud-based sensor monitoring and alert system. A variety of sensors, such as temperature, humidity, vibration, and pressure, can be hardwired directly to the SENSERT Base Unit or wirelessly connected via the SENSERT Remote I/O. Sensor data is monitored in real-time and alerts are triggered based upon customizable thresholds.

Features:

- Sensor Monitoring
- Real-Time Alerts
- Android/iOS
- Cloud Based Data (Wireless)
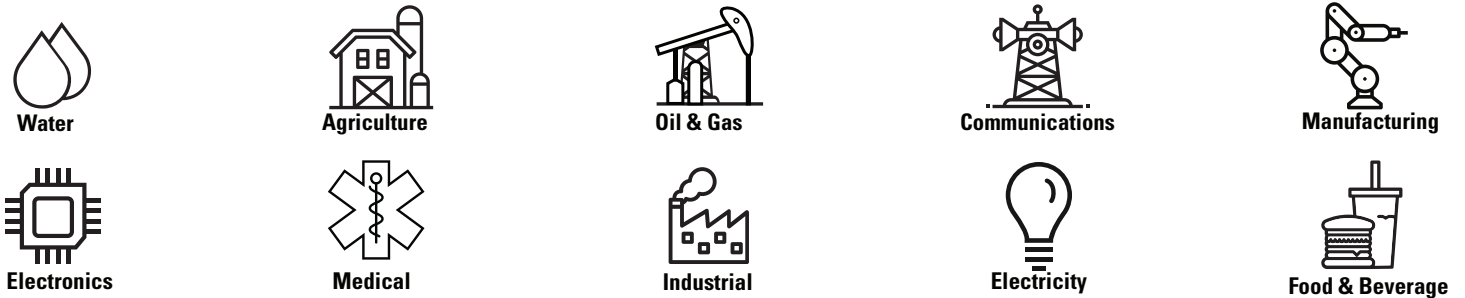- Hardwire and Remote Sensor Compatibility

SENSERT Base Unit

Power Supply	5-30 VDC	
Analog Inputs	4 - 0-20 mA, 4-20 mA, 0-5 V, 0-10 V	
Digital Inputs	2 - Dry Contact or NPN Type	
Digital Output	1 - Relay (240 VAC, 5A)	
Internal Measurements	Temperature and Humidity	
Analog Channel Impedance	mA: 200 ohm V: 1M ohm	
Digital Inputs	Type	Dry Contact or NPN Type
	Logic Levels	Logical Level "0": From 0 to 0.5 VDC Logical Level "1": From 3 to 30 VDC
	Maximum Voltage	12 VDC
	Input Impedance	500k ohm
	Input Current @ 12 VDC (Typical)	24uA
	Maximum Frequency (Square Wave)	Dry Contact: 500 Hz NPN: 500 Hz
	Minimum Pulse Duration	Dry Contact: 2 ms NPN: 2 ms
Resolution	4096 (12 bit ADC)	
Report Interval	Configurable	
Alerts	Configurable through the SENSERT Mobile App or Web Portal. Each channel can be configured for a high and low threshold value as well as custom alerts.	
Operation Temp	-4 to 131°F (-20 to 55°C)	
Accuracy	1% for all inputs, 2% for internal measurements	
Communication	RS485 [FUTURE DEVELOPMENT]	

Flow | Current/Load | Level | Temperature | Pressure | Humidity | Vibration

SENSERTio.com

8019 Ohio River Blvd •Newell, WV 26050 USA

SENSERT Applications

SENSERT is engineered to monitor sensors in critical processes and provide alerts to the user in numerous environments. SENSERT can be utilized in the following applications:

Water **Agriculture** **Oil & Gas** **Communications** **Manufacturing**

Electronics **Medical** **Industrial** **Electricity** **Food & Beverage**

SENSERT Ecosystem

SENSERT Base Unit
- Power Supply: 5-30 VDC
- Analog Input: 4 [0-20 mA, 4-20 mA, 0-5 V, 0-10 V]
- Digital Input: 2 [Dry Contact]
- Digital Output: 1 [Relay]
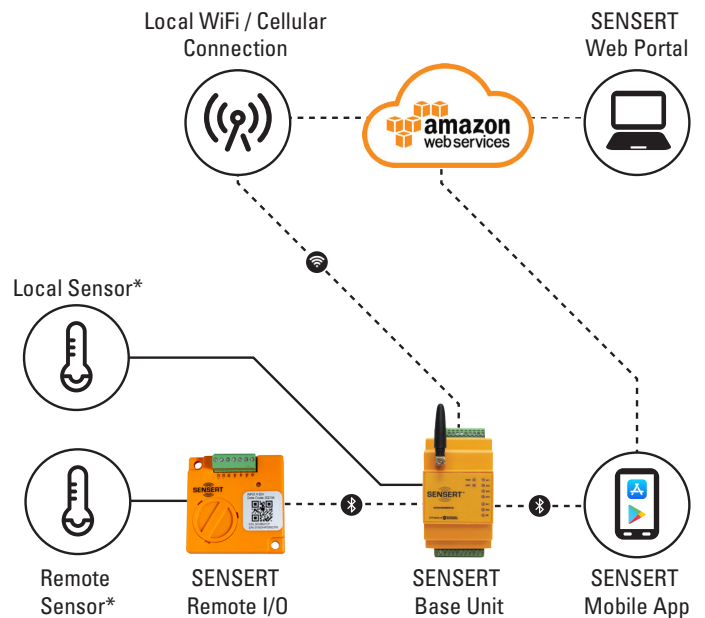- WiFi Cloud and Bluetooth-Mesh Device Communication

SENSERT Remote I/O
- Power Supply: 12-24 VDC or battery [2032]
- Analog Input: 1 [0-20 mA, 4-20 mA, 0-5 V, 0-10 V]
- Digital Input: 1 [Relay]
- Bluetooth-Mesh Device Communication

*Sensor
Any type of sensor with analog output of 0-20 mA, 4-20 mA, 0-5 V, 0-10 V

Local WiFi / Cellular Connection

SENSERT Web Portal

amazon web services

Local Sensor*

Remote Sensor*   SENSERT Remote I/O   SENSERT Base Unit   SENSERT Mobile App

Ordering Information

Product	Product Number	Features
SENSERT Base Unit	SST-BWF1HH	• WiFi cloud communication • Combination wireless and hardwired device communication • Hardwired power • Hybrid DIN rail and panel mount
SENSERT Remote I/O	SST-RBM1CP	• Combination wireless and hardwired device communication • Combination battery and hardwired power • Panel mount

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