Manuals+ — User Manuals Simplified.

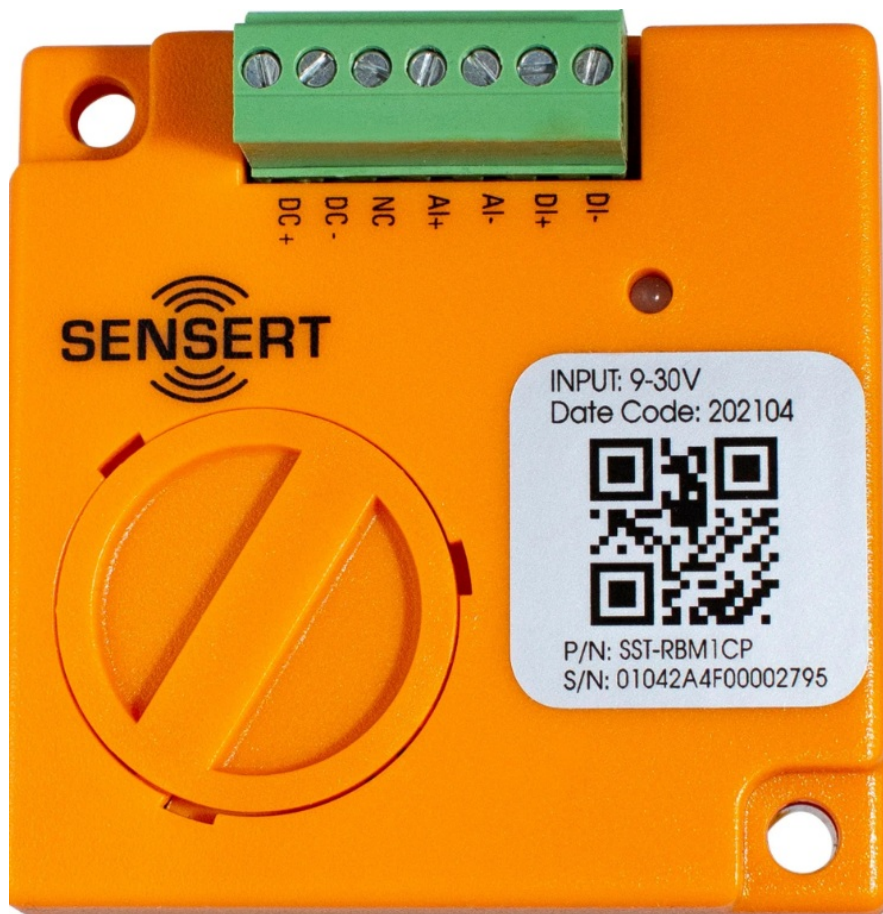# SENSERT SST-RBM1XX Remote I or O Monitoring and Alert System Instruction Manual

Contents

SENSERT SST-RBM1XX Remote I or O Monitoring and Alert System

Product Name: SENSERT Remote I/O
Model No.: SST-RBM1XX
Manufacturer: Automatic Timing and Controls Diversified Electronics
Address of Manufacturer: 8019 Ohio River Blvd, PO Box 305, Newell, WV 26050 USA

SENSERT Remote I/O Unit Specifications

Power Supply	5-30 V DC	
Analog Inputs	1 - 0-20 mA, 4-20 mA, 0-5 V, 0- 10 V	
Digital Inputs	1 - Dry Contact	
Internal Measurements	Temperature ,Humidity,and Vibration Sensor	
Analog Channel Impedance	mA: 200 ohm V: 1M ohm	
Digital Inputs	Type	Dry Contact
	MaximumVoltage	12 V DC
	Input Impedance	500k ohm
	Input Current @ 12 VDC (Typical)	24uA
Resolution	4096 (12 A DC)	
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	
Bluetooth	Cat	Bluetooth 5.0 Single Band
	Modulation type	GFSK
	Antenna Gain	3.38dBi

FCC statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

SENSERT REMOTE I/O Unit Diagram
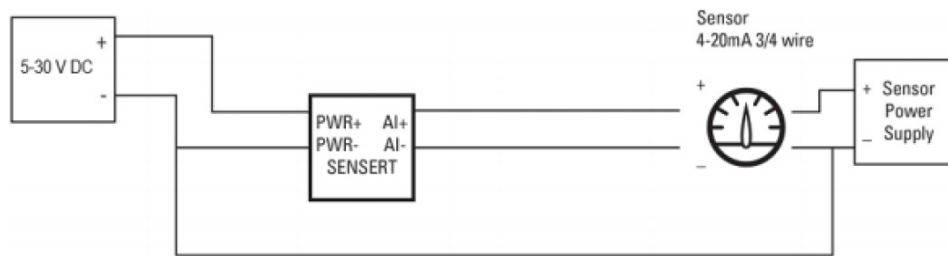

Powering SENSERT
SENSERT is able to be powered 5-30 V DC. See diagram below.
The 4-20 mA input from the sensor cannot be floating with the power supply that is used for the SENSERT Remote I/O Unit. The max common mode voltage of the AI +/- to the GND of DC power must be 0- 24 V. The floating 4-20 mA AI input might damage the SENSERT Remote I/O Unit.

Option 1:4-20mA 3/4 wire sensor

The sensor's 4-20 mA 3/4 wire supply need to share the same negative net with SENSERT power negative net.

Option 2:4-20mA 2-wire sensor
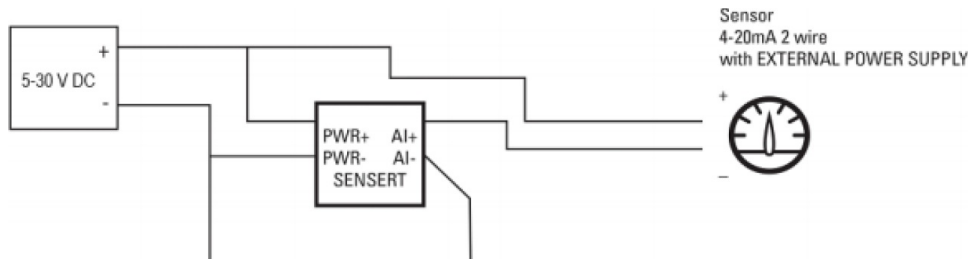
Connecting to Bluetooth

Download the SENSERT Mobile App available in the Google Play or Apple App Store and log in using the credentials you used to register your account. After logging into your new SENSERT account, navigate to: Configuration Device to add a new SENSERT device. Input the serial number of the SENSERT Remote I/O Unit, located on the underside of the SENSERT device. Please make sure that your Bluetooth connections are enabled on your phone at this time. If the device has not previously been added to an account, it will automatically connect. If the unit does not automatically connect, please see the troubleshooting section to reset the Bluetooth Mesh.

Analog Input Channel Setup
Analog channel can be enabled or disabled in the configuration screen. If enabled, enter the following information:

Name:
User-defined name of the analog channel

Input Sensor Type:
Select from 0- 10 V, 0-5 V, 4-20 mA, and NTC.

Analog:
Select the type of sensor from the drop-down menu.

Unit:
Define the unit for the sensor output data.

Zero & Span:
Define the zero and span for the channel data for the display.

Report Intervals: The interval of the data updated on the cloud, but if the channel data has no changes larger than 0.05%, the data will not be reported to the cloud.

Alert:
Choose the boundaries for the lower and upper limits for the notification alarm.

Digital Input Channel Setup

Name: User-defined name of the digital channel

Report Intervals: The interval of the data updated on the cloud, but if the channel data has no changes of the status of the DI input, the data will not be re-reported to the cloud.

Sensor Type:
Dry Contact.

Input Mode:
DI input will be treated as digital input normally. The data will be 0 or 1.

Troubleshooting

Occasionally it may be necessary to reset the SENSERT Base Unit to re-enable connectivity.

Reset SENSERT Remote I/O Unit:
Using a pin or paperclip reset the device using the inset rest button on the side of the SENSERT Remote I/O Unit. Holding the reset pin for different durations determine the type of reset performed. (See below)

Power down SENSERT Base Unit:
Hold for 3 seconds until the Power LED flashes then release.

Reset Bluetooth Mesh:
Hold for 6 seconds until the Status LED flashes, then release. In addition to the hardware reset, the user with the account will need to open the smart phone app, go to configuration then device and click reset here as well as the hardware base unit reset.

Reset Factory Settings:
Hold for 9 seconds until both Power and Status LEDs flash, then release. For the user who has the SENSERT already in the account, need to go in smart phone app, go to configuration- device – click RESET to reset the mesh in the app too.
NOTE: This will reset the unit to Factory Settings.

Changes to Terms
Marsh Bellofram reserves the right, in its sole discretion, to change the Terms under which **www.sensert.io** is offered. The most current version of the Terms will supersede all previous versions. Marsh Bellofram encourages you to periodically review the Terms to stay informed of our updates.

Contact Us
Marsh Bellofram welcomes your questions or comments regarding the Terms:
Marsh Bellofram, Inc.
8019 Ohio River Blvd
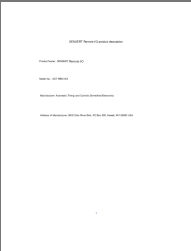Newell, West Virginia 26050
Email Address:
customerrfq@marshbellofram.com
Telephone number:
304-387- 1200
Effective as of January 01, 2020

Documents / Resources

SENSERT SST-RBM1XX Remote I or O Monitoring and Alert System [pdf] Instruction Manual
SST-RBM1XX, SSTRBM1XX, 2A52ESST-RBM1XX, 2A52ESSTRBM1XX, SST-RBM1XX Remote I or O Monitoring and Alert System, Remote I or O Monitoring and Alert System, O Monitoring and Alert System, Monitoring and Alert System, Alert System

References

- **sensert**