Planning and Implementing a Successful Sensor Installation

Sentrius™ RS1xx Series

Application Note   *v1.1*

PREPARATION

To prepare for the installation, follow these steps:

1. Ensure that the appropriate batteries (Lithium or Alkaline) are installed, aligned with the sensor setting, which is configured via the Sentrius smartphone application.
2. Without over-tightening, securely screw the battery cover onto the sensor body. Tighten the screws in all four corners.
3. Ensure that you have suitable fixings to securely zip tie, or screw (required screw specification defined in Figure 5**Figure 5**) the sensor to the intended surface using the provided mounting holes highlighted in Figure 2, mounting hole dimensions detailed in Figure 4

   OR

   Place strips of double-sided sticky foam / Velcro strips along the back side of the sensor.

Figure 1: Back side of the Sentrius™ RS1xx Sensor

Note: While these types of adhesives work much of the time, they are not the intended mounting option for the following reasons:

- Surfaces may not be grease- or moisture-free at fitting, meaning adhesion may not be good.
- Sensors can be knocked off when mounted in this manner.
- The sticky contacts can deteriorate over time and require replacing.

POSITIONING/FIXING

To properly position the sensor, follow these steps:

1. Identify the locations at which you'll mount the sensors. For optimum response to temperature changes, position the sensor in a way that air can flow through the sensor air channel.

   The white material is a Gore-Tex cover that allows airflow through (highlighted in Figure 3).

2. Using predrilled holes in the mounting surface, screw the sensor against the wall, consider using washers to spread the load.

Figure 2: Front side of the Sentrius™ RS1xx Sensor

Notes:

- The sensor drop height is rated at one meter. Avoid locating sensors higher than one meter above a surface.
- When locating sensors in chilled locations, avoid placing them directly on a surface. Placing sensors directly on a thermal mass negatively impacts their temperature response. In addition, sensors that lie flat or on their side are liable to accumulate moisture along the face/edge which could impact operation and cause damage over time.
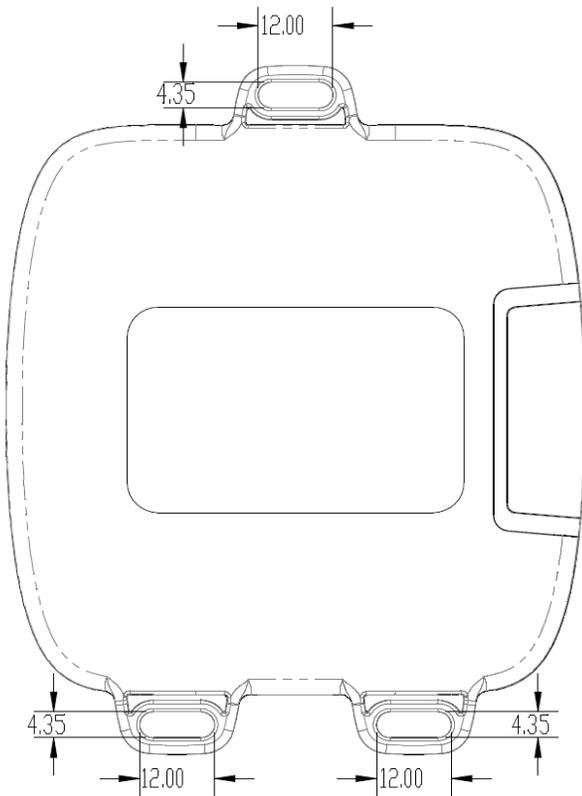

Figure 3: Front side of the Sentrius™ RS1xx Sensor

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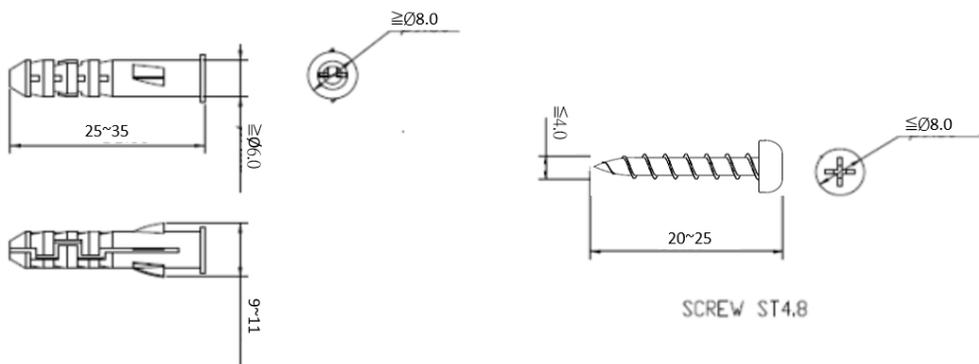**Figure 4: Rear view of Sentrius™ RS1xx Sensor with mounting hole dimensions**

Figure 5: Sentrius™ RS1xx Sensor screw specification for wall mounting

REVISION HISTORY

Version	Date	Notes	Contributor(s)	Approver
1.0	24 Sept 2019	Initial Release	Chris Boorman	Chris Boorman
1.1	24 Aug 2020	Update to show screw spec and hole dimensions for wall mount		Chris Boorman

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