

Planning and Implementing a Successful Sensor Installation

Sentrius™ RS1xx Series

Application Note

v1.0

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, and 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, bolt, or screw the sensor to the intended surface using the provided mounting holes (highlighted in Figure 2).

OR

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



Figure 1: Back side of the Sentrius™ RS1xx sensor

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, using washers to spread the load.

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 2: Front side of the Sentrius™ RS1xx sensor



Figure 3: Front side of the Sentrius™ RS1xx sensor

REVISION HISTORY

Version	Date	Notes	Contributor(s)	Approver
1.0	24 Sept 2019	Initial Release		Chris Boorman