Sense Anywhere
SIMPLY SMARTER

DATASHEET

# TEMP+RH MODULE 01-01-20

## TEMP+RH MODULE FOR DYNAMIC ENVIRONMENTS!

### Product Description

The Temp+RH Module from SenseAnywhere is a small connector with enormous potential. The module measures between 0-99%RH (non-condensing) and can monitor temperatures from -40°C to +70°C. The powerful Temp+RH Module has a swift response time because sensors are exposed to the environment directly and have minimal material around them. The module is exceptionally suitable for measuring temperature and relative humidity in dynamic environments.

Mapping or validating refrigerators and freezers as well as small cold stores or vehicle cargo spaces can be accurately performed with our AiroSensor model 20-20-43 with this module installed. For temperature measurements, the module easily meets the highest accuracy class (0.2°C) of the EN12830:2018 standard for data loggers over its complete temperature range. In addition, the Temp+RH Module can also be used for reference measurements in the field. Due to its swift response time, the module can be placed beside an existing data logger to verify its measurements while performing its task without any downtime.

Complementary to its size, the Temp+RH Module can be used in hard to access spaces where a standard AiroSensor will not fit or does not have a good wireless connection due to shielding. To separate the module from the AiroSensor, SenseAnywhere has SAB Extension Cables available with different lengths up to 10m long. The module can be combined with SenseAnywhere's SAB Extension Cables, which allows products with a SenseAnywhere Bus (SAB) interface to be connected. In this way, you can connect the cable between an AiroSensor model 20-20-43 and the Temp+RH Module to transfer its measurements to the data logger from the most inaccessible locations. Beneficial to the integrated electronics in the connector, the Temp+RH Module can be calibrated as an individual device to ensure all measurements are accurate.



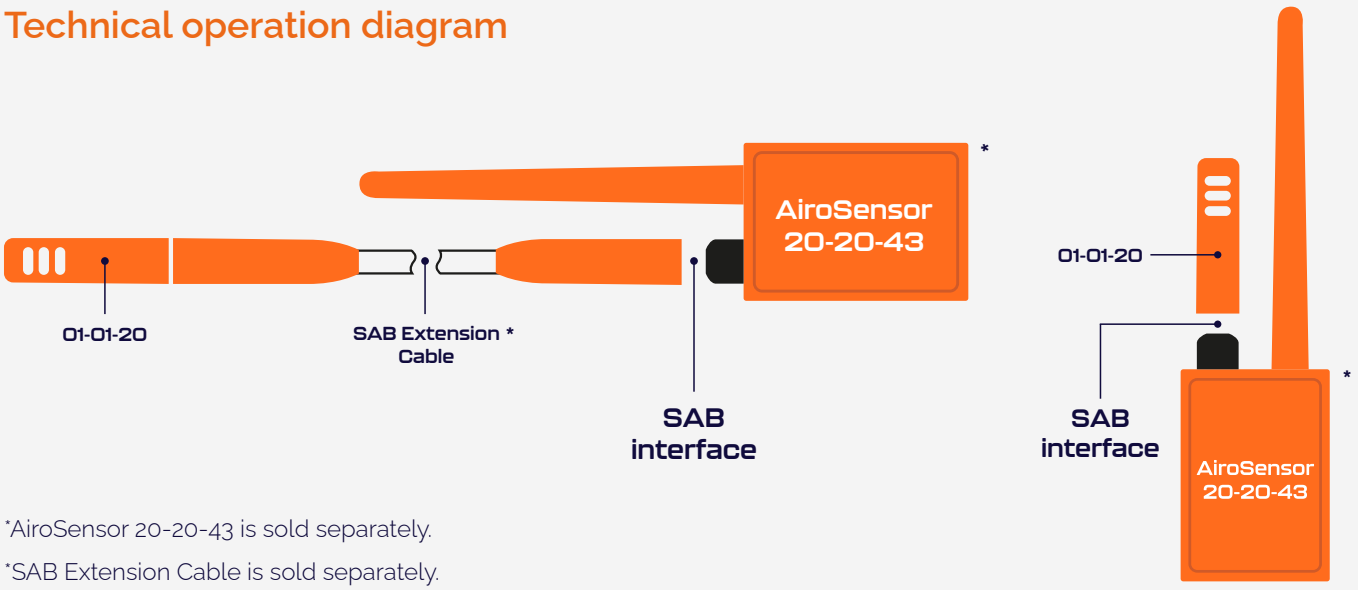
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| | |
|---|---|
| Connector/Interface | 4-pin SenseAnywhere Bus |
| Casing Material | PA (UL 94 V-0) |
| Dimensions Connector | Ø 11.5mm x 48mm/ 0.45in x 1.89in |
| Protection Class | IP62 |
| Temperature Range | -40˚C to +70˚C * |
| Accuracy | Max. ±0.10˚C (0˚C to 70˚C) ±0.18˚F (32˚F to 158˚F)<br>Max. ±0.15˚C (-40˚C to 0˚C) ±0.27˚F (-40˚F to 32˚F) |
| Resolution | 0.01˚C / 0.018˚F |
| Long Term Stability | ≤ 0.01˚C / year ≤ 0.018˚F / year |
| Humidity Range | 0-99% non-condensing ** |
| Accuracy | Typ. ±2% RH Max. ±3% RH (0-80% RH)<br>Max. ±4.5% RH (80-100% RH) |
| Resolution | 0.1% |
| Long Term Stability | ≤ 0.25% RH / year |
| Logging Interval | 5 minutes |
| Compatibility | EN12830:2018 Accuracy class 0.2, Software class III, storage & transport |
| EAN: | 96647495040 |

* Do not (dis)connect the connector at temperatures below -25˚C

** Frequent condensation and long-term high humidity levels should be avoided

## Technical operation diagram




*AiroSensor 20-20-43 is sold separately.

*SAB Extension Cable is sold separately.