

RH Pro Module

01-01-28

Next-level stability - Rotronic®
humidity sensors performance



SenseAnywhere RH Pro Module: Stability and Precision for Critical Environments

The SenseAnywhere RH Pro Module is the ideal choice for Pharma, Healthcare, and Laboratory environments, designed for incubators and climate chambers. Equipped with the Rotronic RH sensing element, it offers exceptional temperature and humidity stability and accuracy, even in demanding conditions.

Reliable Accuracy and High Performance

The RH Pro Module operates seamlessly from -40 °C to +70 °C and 0 to 100 %rh, maintaining an outstanding accuracy of ± 1 %rh / ± 0.1 °C. Its robust design ensures reliable performance in challenging settings, such as high humidity climates, rapid temperature changes, and harsh environments prone to chemical exposure.

Truly Wireless and Energy Efficiency

One of the defining features of the RH Pro Module is its truly wireless design: battery-operated with wireless connectivity. This wireless capability, combined with SenseAnywhere's energy-efficient protocol and a battery life of 10 years, ensures long-term reliability and maintenance-free operation. This design makes the RH Pro the perfect tool for validation and mapping projects, eliminating the complex setup and constraints of wired sensors in hard-to-reach areas.

Best Long-Term Stability and Less Drift

Engineered with the Rotronic RH sensor, the RH Pro Module delivers best-in-class long-term stability, significantly reducing drift over time. This makes it the go-to solution for professionals requiring consistent and precise measurements, even in environments with fluctuating conditions.

Key Features / Advantages

- Truly Wireless
- Energy-efficient (10 years battery life)
- Outstanding accuracy: ± 1.0 %rh / ± 0.1 °C per year
- Best long-term stability: < 1 %rh / 0.01 °C per year
- PTFE protection filter
- Response time τ_{63} : < 15 s
- Hot swappable module, no downtime using our AssetTag
- SAB, SenseAnywhere Bus interface. Easily extend the distance between the RH Pro and the host.



Effortless Calibration and No Downtime

To maintain precision, the RH Pro Module can be effortlessly swapped - allowing for recalibration with zero downtime and uninterrupted and proven data accuracy. Combined with the AiroSensor 20-20-43, it becomes the preferred solution for a wide range of critical applications. The module is supplied as standard with an Certificate of Accuracy and can be supplied with an Accredited Calibration Certificate upon request.

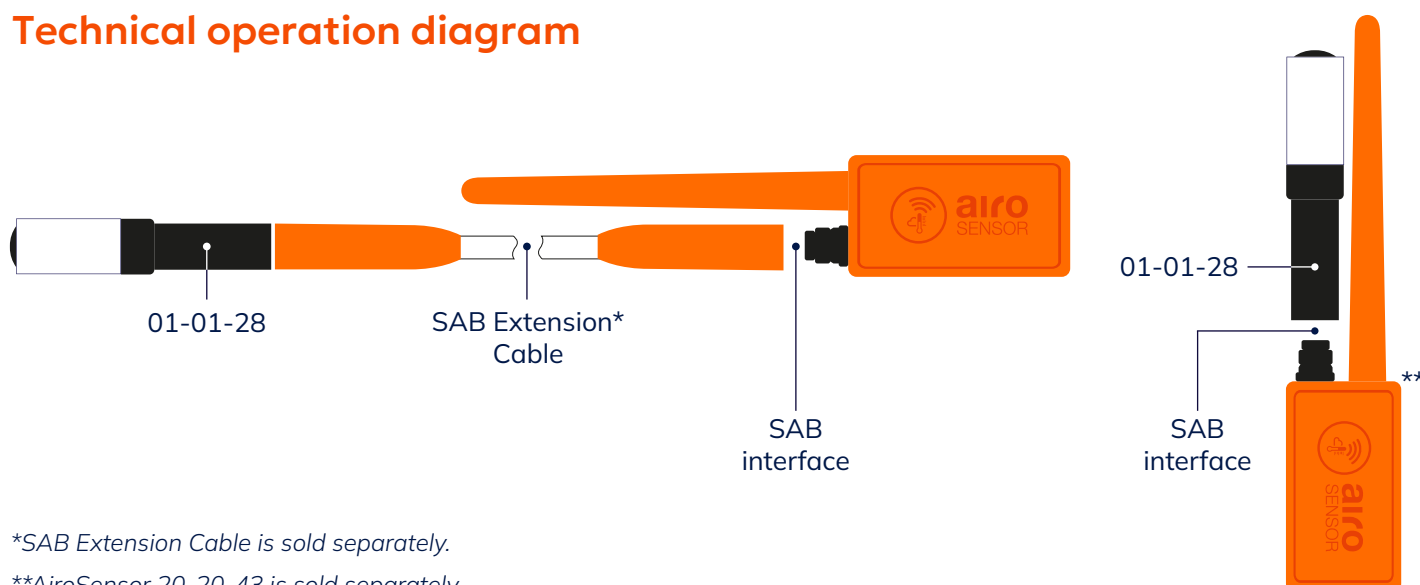
Engineered for the Toughest Conditions

Whether moisture is near saturation or environmental conditions fluctuate, the SenseAnywhere RH Pro Module consistently delivers fast, precise, and reliable temperature and humidity data, making it the first choice for professionals who demand uncompromising quality and performance.

Choose the SenseAnywhere RH Pro Module for environments where accuracy, stability, and efficiency are essential.

High Stability Humidity and Temperature Measurement Smart, Stable, Sustainable

Technical operation diagram



*SAB Extension Cable is sold separately.

**AiroSensor 20-20-43 is sold separately.



Specifications

Module Name	SenseAnywhere RH Pro 01-01-28	
Sensor	Rotronic RH (HygroMer®)	
Connector/Interface	4-pin SenseAnywhere Bus (SAB)	
Temperature	Operating Range -40 °C...+70 °C* Accuracy 0.1 °C Long Term Stability 0.01 °C/year	-40 °F to +158 °F 0.18 °F 0.018 °F/year
Humidity	Operating Range 0...100 %rh Accuracy ±1.0 %rh (23 °C) Long Term Stability <1 %rh/year	
Casing Material	PC (Polycarbonate)	
Connector Material	Nylon	
Weight	10 g 0.35 oz	
Protection Class	IP64	
Logging Interval	5 minutes (default)	
Compatibility	EN12830:2018 (when used with the AiroSensor) Accuracy Class 0.2, Software class III, storage & transport CE, EN55022 (868 MHz), FCC (915 MHz), IC (915 MHz)	
Hysteresis (4 hours each at 10 %rh – 90 %rh - 10 %rh)	<0.5 %rh	
Response time τ_{63}	<15 s (at 23 °C and 1 m/s)	
EAN	0096647495552	

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