



Introducing the new SpaceLogic Plant Room Air Quality Sensors

Healthy buildings start in the plant room

se.com

Schneider
Electric™

Authorized Partner

**COMFORT
SYSTEMS USA**
BCM Controls Corporation



Indoor air quality and healthy environments start at the foundation level requiring highly accurate and effective sensing solutions to ensure the air is properly monitored in the plant room.

Best-in-class sensing

A **5-in-1 multi-sensor**, allowing you to cover all your air quality sensing needs in one compact design plus automatic calibration for optimum accuracy.



CO₂



Temperature



Humidity



VOC



Particulate matter

Our sensors are key to earning credit for the LEED Green Building Program and WELL Building Standard.



CO₂



Specifications

Sensor type:	Non-dispersive infrared (NDIR), diffusion sampling
Range:	0 to 2000/5000 ppm (selectable)
Output:	Analog: selectable 4 to 20 mA, 0 to 5 Vdc, 0 to 10 Vdc Protocol: BACnet, Modbus
Accuracy:	±30 ppm ±3% of measured value

Value-added features

- Backlit LCD display
- Selectable measurement ranges
- Field and automatic CO₂ calibratable sensor

Temperature



Specifications

Sensor type:	Solid state, thermistor or RTD
Range:	Outdoor: -40 to 55°C (-40 to 131°F) Duct: -35 to 60°C (-31 to 140 °F) (SHD2 series) 0 to 50°C (32 to 131°F) (SCD2 series)
Output:	Analog: Selectable 4 to 20 mA, 0 to 5 Vdc, 0 to 10 Vdc Protocol: BACnet, Modbus (for ducts models only)
Accuracy:	±0.2 °C (±0.4 °F) typical @ 25 °C

Value-added features

- Replaceable temperature module with 2-point calibration certificate
- Backlit LCD display
- Multiple sensing element options for easy 3rd party system integration

Humidity



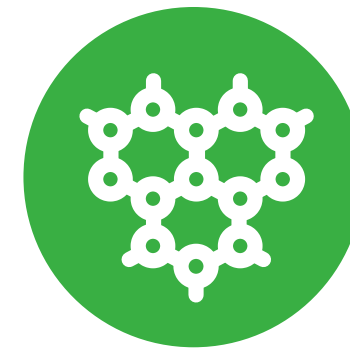
Specifications

Sensor type:	Thin-film capacitive, replaceable
Range:	0 to 100% RH
Output:	Analog: Selectable 4 to 20 mA, 0 to 5 Vdc, 0 to 10 Vdc Protocol: BACnet, Modbus (for duct models only)
Accuracy:	±2% from 10 to 80% RH @ 25 °C (77 °F) ±1% NIST, ±2% NIST and 2% (replaceable RH module option)

Value-added features

- Field-replaceable RH module
- Outdoor and duct mount options
- Backlit LCD display option (select models)

VOC



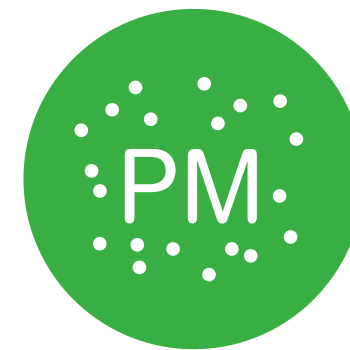
Specifications

Sensor type:	Solid state
Range:	0 to 100% AQI
Output:	0 to 1,000 ppb of total VOC (TVOC)
Accuracy:	±15% sensor-to-sensor variation

Value-added features

- High accuracy
- Output scaled for precise readings of compounds
- Output range covers all air quality index parameters

Particulate matter



Specifications

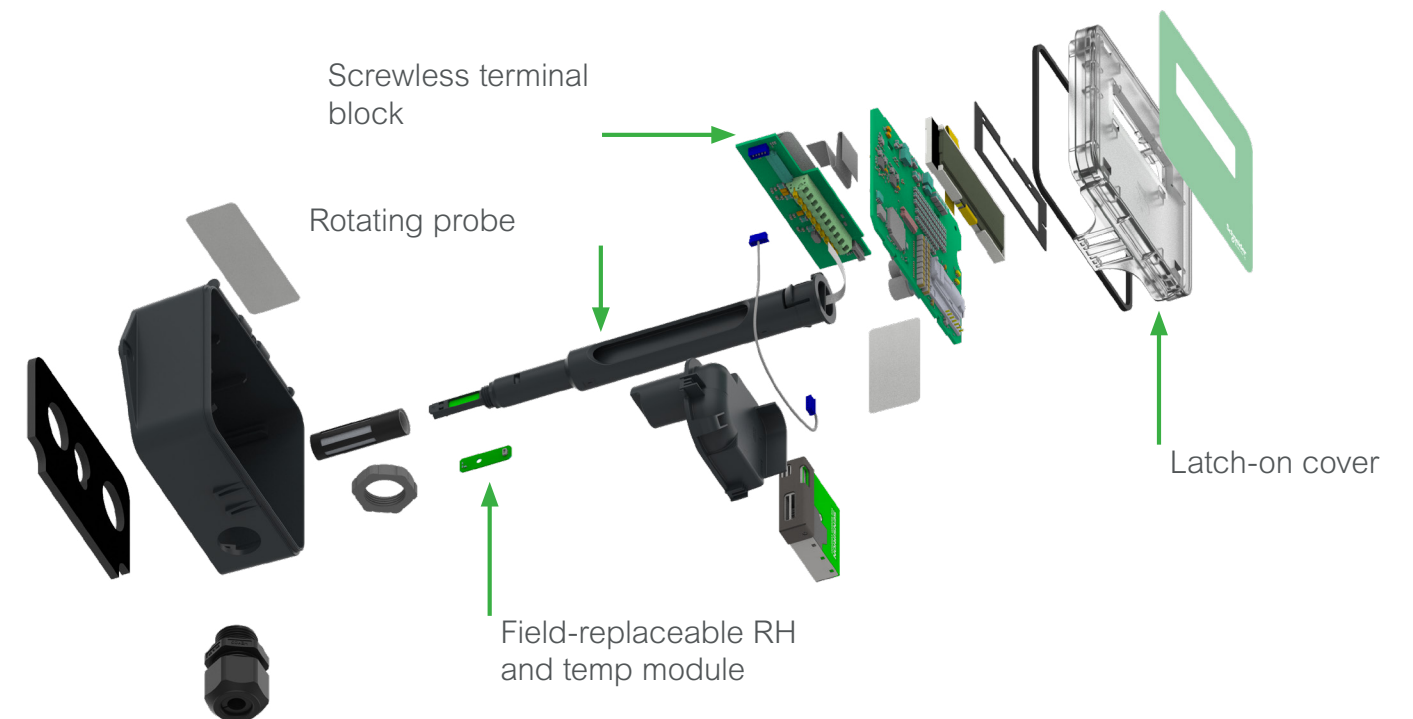
Sensor type:	Laser-scatter
Range:	0 to 1000 ug/m³
Output:	Selectable 4 to 20 mA, 0 to 5 Vdc, 0 to 10 Vdc
Accuracy:	PM 1 & 2.5: ±10 ug/m³ (0 to 100 ug/m³), ±10% (100 to 1000 ug/m³) PM 4 & 10: ±25 ug/m³ (0 to 100 ug/m³), ±25% (100 to 1000 ug/m³)

Value-added features

- Innovative resistance technology providing a highly accurate measurement
- Advanced detection ability enabling collection of a wide range of environmental dust and other particles
- Improved performance capability providing a distinctly long-term stability

Flexibility and simplification

- Medium and optimum offering based on applications requirements and budget
- Customizable features, add more as needed
- Controller selection can be made after installation
- Easy deployment – install now, select features later – all without re-wiring
- 50% faster installation time with latch-on cover and screwless terminal block
- Predictive maintenance
- Open protocol output
- Plug and Play experience with Schneider Electric ecosystem through Ready-Connect feature



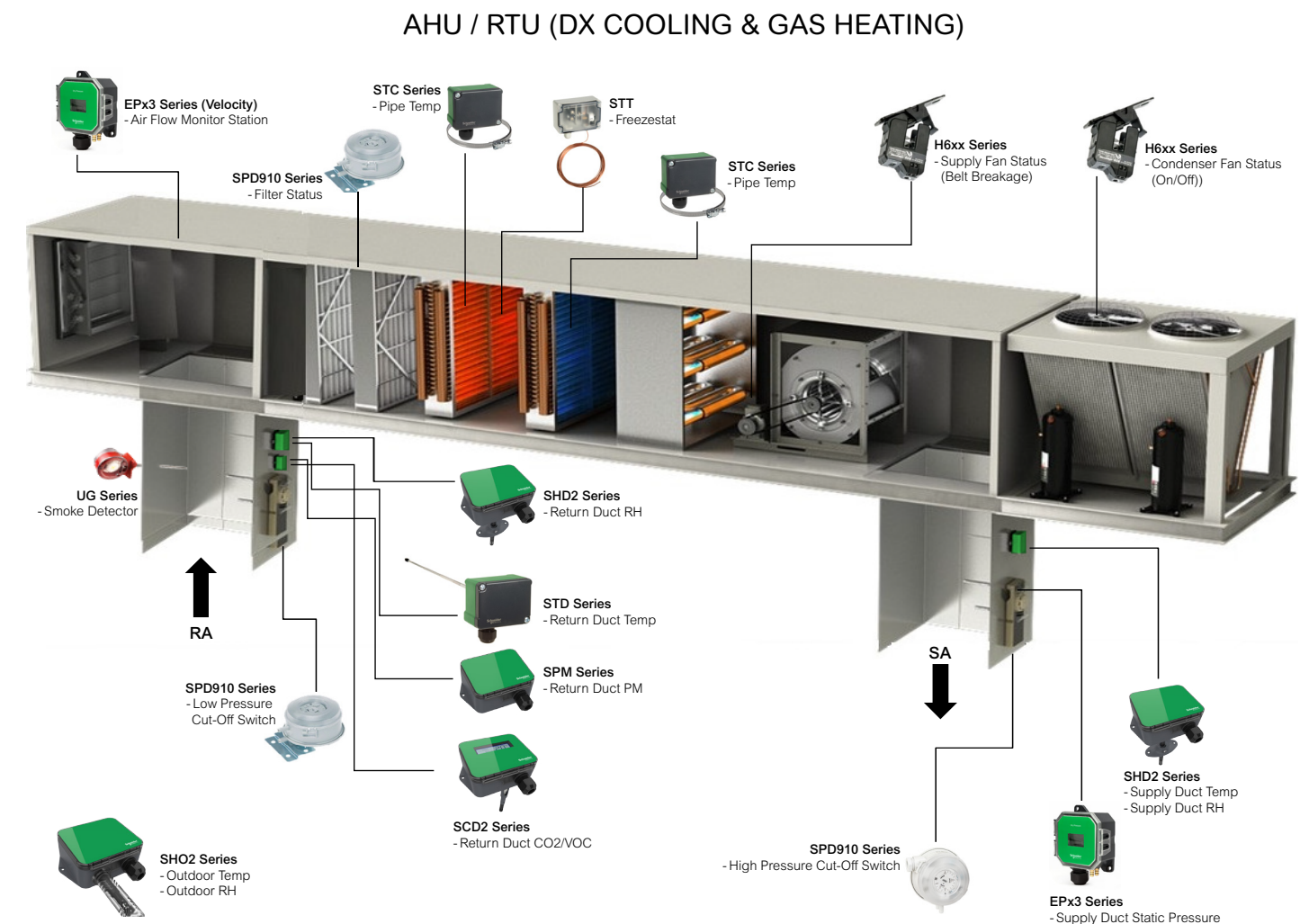
Robust and resilient

Manufactured by a company with extensive experience in sensing solutions, our Plant Room Air Quality Sensors have been designed to ensure stability, high quality and performance now and for future needs.

- Selectable outputs with the flip of a switch
- Premium sensor technology ensuring high accuracy
- Field replaceable RH and temperature modules
- 3rd party connectivity
- Multiple temperature sensing elements

Quality and reliability

- Tested, calibrated and certified
- One source for global support, services and supply chain eliminating your need to engage with multiple vendors
- Exceeds many international standard requirements
- 5-year warranty



Standards

- UL 916
- European conformance CE:
- EN61000-6-2, EN61000-6-3, EN61000
- Series, industrial immunity, EN 61326-1
- FCC Part 15 Class A
- Green Premium (REACH, RoHS),
- RoHS 2 (China), RCM (Australia),
- ICES-003 (Canada), EAC (Russia),
- UKCA (UK)



Built to suit your needs

With Schneider Electric’s new range of plant room sensors you can eliminate the need for multiple SKUs and inventory overload

Sensor types

SCD2

CO2



LCDStandard

SHD2

Temp/RH duct



LCDStandard

Medium and optimum solutions offering flexibility based on application and budget requirements

SHO2

Temp/RH outdoor



SPM

Particulate matter



OutdoorDuct

Series nomenclature

SKU matrix example (does not apply to all series, refer to data sheets on [se.com/plant room air quality sensors](https://se.com/plant-room-air-quality-sensors)).

Model with temperature transmitter					
User Interface	Output	RH sensor	Temperature	VOC sensor	PM sensor
SCD2 L = LCD display X = None	A = Analog output P = BACnet/Modbus	2 = 2% X = None	A = Transmitter only C = 1000 PT RTD H = 10K T3 Thermistor	V = NIDIR CO₂/VOC C = NDIR CO₂	P = PM1/2.5/4/10 selectable X = None

Example

SCD2

X

A

2

C

C

X

Model without temperature sensing					
User Interface	Output	RH sensor	Temperature	VOC sensor	PM sensor
SCD2 L = LCD display X = None	A = Analog output P = BACnet/Modbus	X X = None	X X = None	V V = NIDIR CO₂/VOC	X X = None

Example

SCD2

L

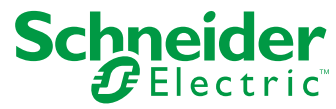
P

X

X

V

X



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