

NCSRHO1 Humidity & Temperature Transmitter



Product Description

Humidity & Temperature Transmitter

The relative humidity and temperature transmitter NCSRHO1 is intended specifically for outdoor air humidity monitoring. The state-of-the-art design combines microprocessor based linearization and temperature correction with a world class capacitance sensor, resulting in reliable and accurate measurements.

Applications

The transmitter offers reliability and accuracy for even the most demanding applications. High quality sensors guarantee the long stability and wide ranges both for humidity and temperature detecting. Excellent long-term stability and quick response time combined with temperature compensation make the product an ideal choice for HVAC applications. The transmitter offers accuracy of 2%.

Details

The transmitter is designed for use in HVAC automation, energy management and process control and monitoring systems, where high performance and stability are demanded. The transmitter detects outdoor air humidity by the capacitive sensor and temperature by the thermistor.

Ordering Codes

NCSRHO1

Humidity & Temperature Transmitter

Features & Benefits

- ▶ Outdoor Humidity and Temperature Transmitter
- ▶ Highly stable RH sensor element
- ▶ Accuracy $\pm 2\%$
- ▶ Humidity span 0% to 100%
- ▶ 0-10 VDC outputs
- ▶ Fast response time
- ▶ Compact enclosure
- ▶ Easy Installation

Technical Information

Sensor Type (RH)	Capacitive
Sensor Type (Temp)	NTC10
Output Signals	0-10 V, 0-5 V, 4-20mA
Range (RH)	0 ... 100 % RH
Range (Temp)	-50 ... 50 °C
Accuracy (RH)	$\pm 2\%$ RH / 25°C (0...90%RH)
Accuracy (Temp)	$\pm 0.5\%$ °C / 0°C
Stability (RH)	$\pm 5\%$ RH / 2 years
Power Supply	24 VAC/DC, < 1 W
Operating Environment	0 ... 50 °C, 0 ... 100 % RH (non-condensing)
Cable Gland	M16
Mounting	With screws, external lugs
Protection Class	IP54, cable downwards
Dimensions (mm)	87 x 87 x 46

Connection Terminal

1	24 VAC/DC supply
2	0 V
3	0-10 VDC output (%RH)
4	0-10 VDC output (°C)