



Humidity Transmitters

SHR Series

Living Space



SHR Series

The SHR Series is an active sensor, which measures relative humidity (% RH) and converts the measurement into two selectable output signals: voltage 0 ... 5 Vdc or 0 ... 10 Vdc, or an electric current 4 ... 20 mA. The SHR models measure relative humidity using a digitally profiled thin-film capacitive element that provides $\pm 2\%$ accuracy over the range. Replaceable humidity elements are available in NIST and non-NIST versions. Each SHR model comes with an embedded temperature sensing element. Please refer to the table below to determine system compatibility.

Specifications

Output	Selectable, 0 ... 5 Vdc, 0 ... 10 Vdc or 4 ... 20 mA
Range	0 ... 95% RH
Accuracy	$\pm 2\%$
Supply	24 Vac/20 ... 36 Vdc

Part number	Model number	Humidity	Temperature	System Compatibility
006903115	SHR110-T	X	X	TAC Vista
006903215	SHR210-T	X	X	TAC I/NET
006903515	SHR510-T	X	X	Andover Continuum
006903615	SHR610-T	X	X	Satchwell
006903815	SHR810-T	X	X	TAC I/A Series
5152339010	HS2xx	X		2% RH
5152339000	hs2Nx	X		2% RH NIST

SHD100

Duct



SHD100

The SHD100 is an active sensor, which measures relative humidity (% RH) and converts the measurement into an electric current 4 ... 20 mA or a voltage level 0 ... 10 Vdc. SHD100 is intended for duct installation and is used for relative humidity measurement within air ducts. The transmitter is delivered as a complete unit, comprising an aluminium mounting flange with the sensing element, and an amplifier mounted in a separate housing.

The sensor has negligible hysteresis and is insensitive to dust as well as a wide range of chemicals. The housing accommodates a 20 mm dual-dimension conduit. A conduit gland nut is supplied with the unit.

Models with -T also include temperature measurement through use of a passive thermistor output suitable for connection to the appropriate controller system type.

Specifications

Output	Selectable, 0 ... 10 Vdc or 4 ... 20 mA
Range	0 ... 95% RH
Accuracy	±2%
Supply	24 Vac/15 ... 36 Vdc

Part number	Model number	Description	System
006902321	SHD100	Duct Humidity Sensor	All (% RH only)
006902331	SHD100-T	Duct Humidity + Temperature	TAC I/NET TAC Vista TAC Xenta
006902381	SHD101-T5	Duct Humidity + Temperature	Andover Continuum TAC Vista TAC Xenta
006902411	SHD101-T6	Duct Humidity + Temperature	Satchwell

SHO100

Outdoor



SHO100

The SHO100 is an active sensor, which measures relative humidity (% RH) and converts the measurement into an electric current 4 ... 20 mA or a voltage level of 0 ... 10 Vdc. The SHO series is intended for outdoor humidity measurement.

Models with -T also include temperature measurement through use of a passive thermistor output suitable for connection to the appropriate controller system type.

Specifications

Output	Selectable, 4 ... 20 mA, 0 ... 10 Vdc
Range	0 ... 95% RH
Accuracy	±2%
Supply	24 Vac/15 ... 36 Vdc

Part number	Model number	Description	System
006902361	SHO100	Outdoor Humidity Sensor	All (% RH only)
006902371	SHO100-T	Outdoor Humidity + Temperature	TAC I/NET TAC Vista TAC Xenta
006902401	SHO101-T5	Outdoor Humidity + Temperature	Andover Continuum TAC Vista TAC Xenta

SCP110/SCC110

Pipe, Contact



SCP110/SCC110

These devices are suitable for fixing to chilled pipework to sense and therefore take control action against the formation of condensation.

The SCP110 is designed for direct mounting onto pipe systems. The sensor element is mounted in the contact material below the housing.

The SCC110 has a remote sensor with a 2 m (6.56 ft.) wire. The sensor element is fitted into a sensor head made of aluminium.

Specifications

Output	Relay contact (change-over), 250 Vac / 5 A, potential-free, contact material Ag/Ni 90/10
Range	Switching threshold adjustable 90 ... 96% RH Mid-position equals 93% RH
Supply	24 Vac ($\pm 10\%$)/15 ... 36 Vdc

Part number	Model number	Description
006902500	SCP110	Pipe Condensation Switch
006902510	SCC110	Contact Condensation Switch