



HUMIDITY

±2% HUMIDITY TRANSMITTER & OPTIONAL TEMPERATURE SENSORS KH_2 SERIES

DESCRIPTION

The **KHR**, **KHD**, and **KHO** Series humidity transmitters are specifically designed for use in HVAC/BAS applications. These instruments measure relative humidity from 0% to 100%. The standard two-wire, 4-20 mA output provides low-cost humidity monitoring for building control. The RH transmitters are available with thermistor or RTD temperature sensors. They come in room (**KHR**), duct (**KHD**), and OSA (**KHO**) mounting styles.

OPERATION

The transmitter converts the relative humidity into a 4-20 mA signal with the latest microprocessor capacitive design. Multipoint factory-automated calibration improves accuracy and repeatability. The optional temperature sensors, thermistor or RTD, offer direct connections to most automation systems.

FEATURES

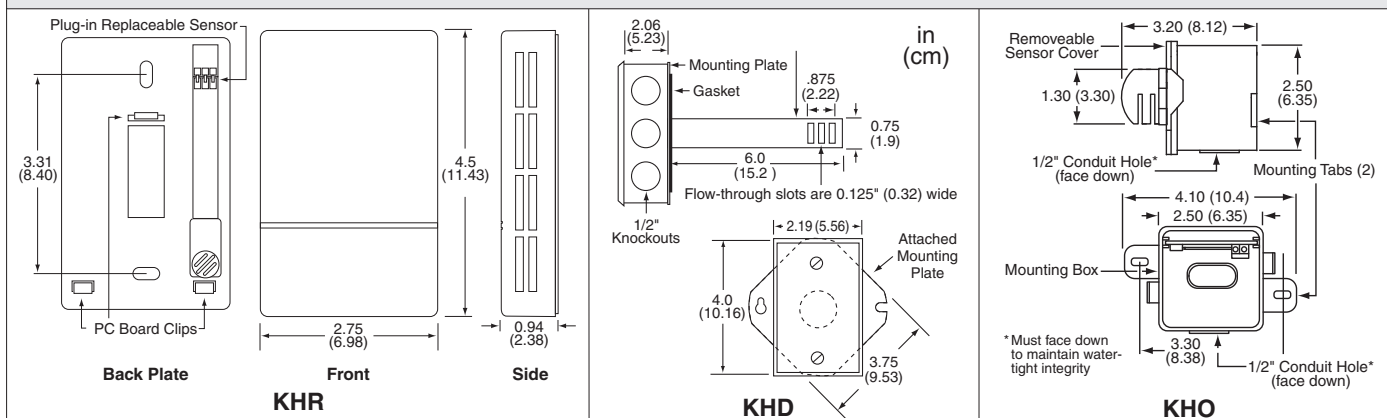
- **Calibration-free interchangeable sensors**
- **Twelve-point computerized calibration**
- **±2% accuracy (5% to 95% RH)**
- **Replaceable sensor probe (no re-calibration)**
- **No need to remove box to replace sensor probe**
- **Attractive room enclosure design**
- **Two-wire, 4-20 mA output, 0% to 100% RH**

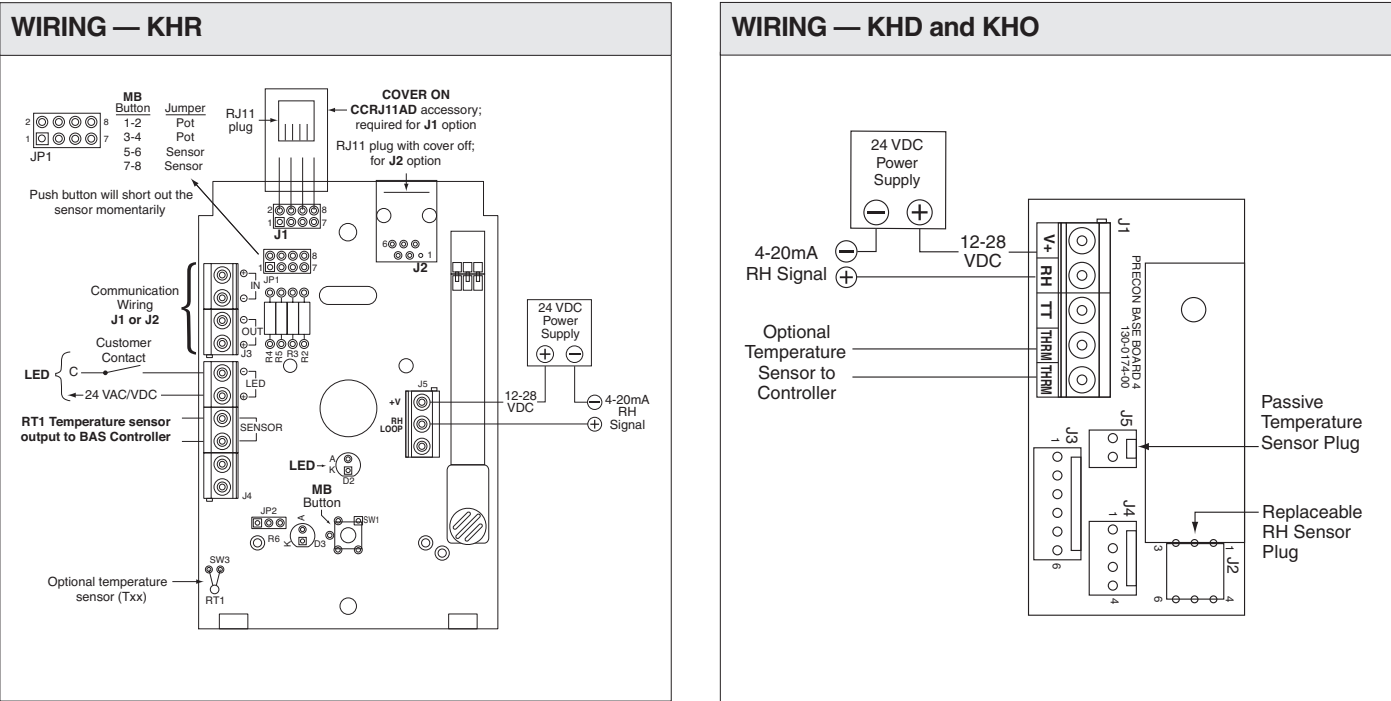


SPECIFICATIONS

Sensor	Precon HS-2000 capacitive, replaceable	OSA	1/2" aluminum tube and 40 micron stainless steel sintered filter
Accuracy	±2% RH from 0° to 70°C, 5% to 95% RH noncondensing	Optional temp	
Temp effect	Temperature compensated with <0.008% RH per °C	Thermistor	Type 3, 24, other sensors available
Long-term stability	<±0.5% drift per year	RTD (Platinum)	Type 85, other sensors available
Supply voltage	8.5-28 VDC	Electrical connections	Screw terminals
RH output	4-20 mA = 0% to 100% RH, two-wire, loop-powered	Enclosure	
Max load impedance	(Supply voltage - 8.5 VDC) / 0.02, 775Ω @ 24 VDC	Room	White plastic, UL94HB
Ambient temp	-22° to 185°F (-30° to 85°C)	Duct	Metal handy box
Probe		OSA	NEMA 3R plastic box
Room	plug-in module under cover	Weight	
Duct	1/2" aluminum tube with expanded Teflon® filter	Room/OSA	0.2 lb (.084 kg)
		Duct	1 lb (0.45 kg)
		Warranty	18 months

DIMENSIONS





ORDERING INFORMATION

MODEL	DESCRIPTION
KHR2	2% Wall mount humidity transmitter, 4-20 mA output
KHR2-T3	2% Wall mount humidity transmitter, 4-20 mA with 10K Type III thermistor
KHR2-T24	2% Wall mount humidity transmitter, 4-20 mA with 10K Type II thermistor
KHD2	2% Duct mount humidity transmitter, 4-20 mA output
KHD2-T3	2% Duct mount humidity transmitter, 4-20 mA with 10K Type III thermistor
KHD2-T24	2% Duct mount humidity transmitter, 4-20 mA with 10K Type II thermistor
KHO2	2% Outside air humidity transmitter, 4-20 mA output
KHO2-T3	2% Outside air humidity transmitter, 4-20 mA with 10K Type III thermistor
KHO2-T24	2% Outside air humidity transmitter, 4-20 mA with 10K Type II thermistor

ACCESSORIES

HSR*	Replacement 2% humidity sensor for wall
HSD*	Replacement 2% humidity sensor
HSO*	Replacement 2% humidity sensor

*Add suffix-T3 or T24 for units with temperature option