



HUMIDITY

2% WALL, DUCT AND OSA HUMIDITY TRANSMITTERS KH2 SERIES

DESCRIPTION

The Kele 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

- 0% to 100% RH measurement
- 2% accuracy (5% to 90% RH)
- Attractive room enclosure design
- Two-wire, 4-20 mA output



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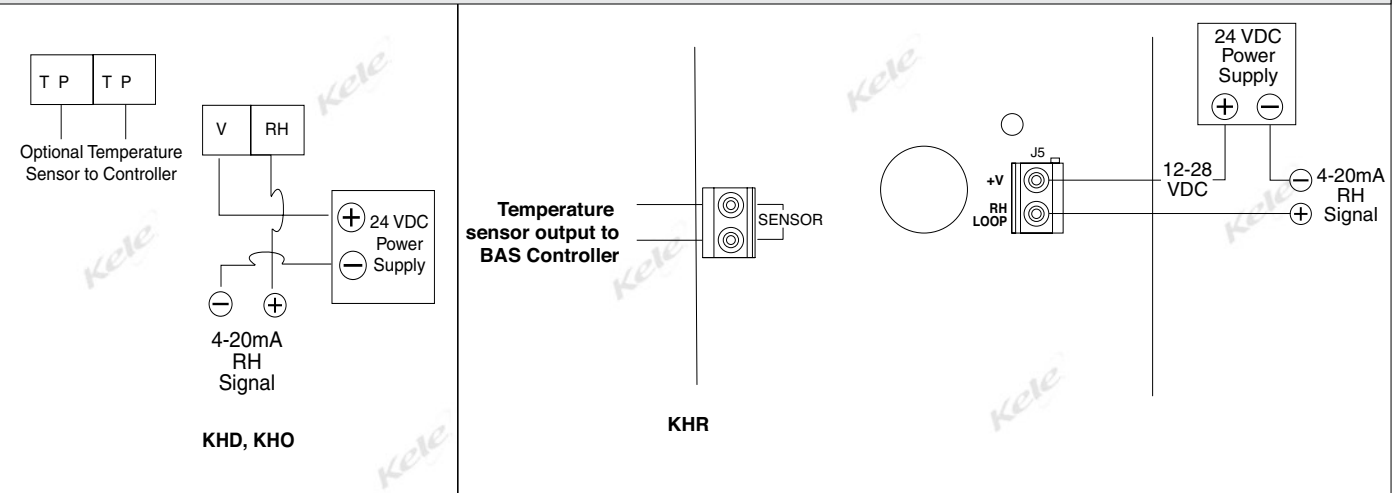
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SPECIFICATIONS

Accuracy	2% RH @ 73°F (23°C) from 5% to 90% (0-5% & 90%-100%) add 3%
Drift	<±0.5% per year
Thermal Effect	0.07% / °F
Supply Voltage	9.5-28 VDC, Loop powered
Signal Output	4-20 mA @ 725Ω at 24 VDC, Passive temperature output: All Kele standard thermistors and RTDs
Sensing Technology	capacitive
Operating Temperature	-20° to 158°F (-29° to 70°C)
Operating Humidity	0-100% Non-condensing
Enclosure Rating	
KHR	NEMA 1, White plastic, UL94HB
KHD	NEMA 1, Metal handy box
KHO	NEMA 3R, plastic box

Probe Duct	Probe: 1/2" aluminum tube with HDPE FGX filter; 6" (15 cm) long
OSA	Probe: 1/2" aluminum tube with HDPE FGX filter
Wiring Terminations	Screw terminals
Weight (without options)	
KHR	0.21 lb (0.09 Kg)
KHD	1.2 lb (0.59 Kg)
KHO	0.52 lb (0.24 Kg)
Approvals	RoHS
Warranty	1 year

WIRING - KHD, KHO AND KHR

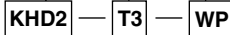




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ORDERING INFORMATION

MODEL	DESCRIPTION
KHD2	Duct mounted 2% humidity transmitter
KHO2	Outside air 2% humidity transmitter
KHR2	Wall mounted room/space 2% humidity transmitter
OPTIONAL TEMPERATURE RANGES	
T3	10,000Ω thermistor @ 77°F (25°C), Type III
T11K	10,000Ω thermistor @ 77°F (25°C), Type III, with 11K shunt
T21	2252Ω thermistor @ 77°F (25°C), Type II
T22	3000Ω thermistor @ 77°F (25°C), Type II
T24	10,000Ω thermistor @ 77°F (25°C), Type II
T27	100,000Ω thermistor @ 77°F (25°C), Type II
T42	20,000Ω thermistor @ 77°F (25°C), Type IV
T81	100Ω RTD @ 32°F (0°C), 385 platinum curve
T85	1000Ω RTD @ 32°F (0°C), 385 platinum curve
T91	1000Ω RTD @ 32°F (0°C), 375 platinum curve
OPTIONS	
CL1	Custom one color logo, KHR2 only
WP	Weatherproof housing, KHD2 only
XJ1	RJ11 externally-accessible communication jack (CCRJ11AD required), KHR2 only
XJ2	Internal RJ11 communication jack, KHR2 only
XLED	LED indicator lamp 24V AC/DC green, KHR2 only
XMB	Momentary pushbutton switch, jumpered across sensor or pot (JP1), KHR2 only



Example: KHD2-T3-WP Duct mounted 2% humidity transmitter with 10,000Ω thermistor @ 77°F (26°C), Type III and weatherproof housing

RELATED PRODUCTS

DCPA-1.2
DCP-1.5-W

Power supply, 120 VAC IN to 24 VAC/24 VDC OUT
Power supply, 24 VAC IN to 24 VDC OUT