

H_30K SERIES

3%WALL, DUCT, AND OSA HUMIDITY TRANSMITTERS
HUMIDITY
BRAND: KELE

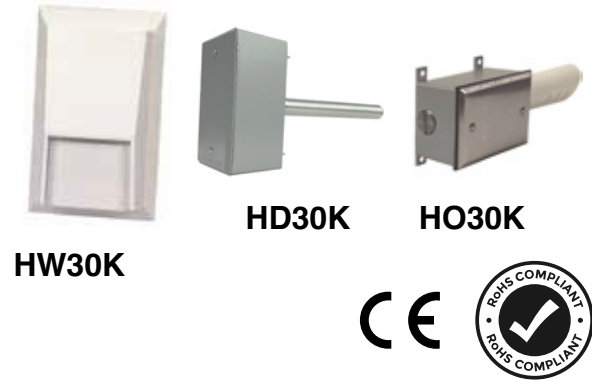


Description

The **Kele Series H_30K humidity transmitters** have been specifically designed for use with HVAC/ BAS applications. These instruments measure relative humidity from 5 to 90% with 3% accuracy and produce a two wire, 4-20mA linear output. All can come equipped with an optional passive RTD or thermistor.

Operation

The temperature compensated circuitry converts the relative humidity into a 4-20 mA signal. The optional temperature sensors, RTDs or thermistors, offer direct connection to most automation systems.



Features

- 3% accuracy (5% to 90% RH)
- Two-wire, 4-20 mA RH output
- Optional temperature thermistor
- Optional temperature RTD

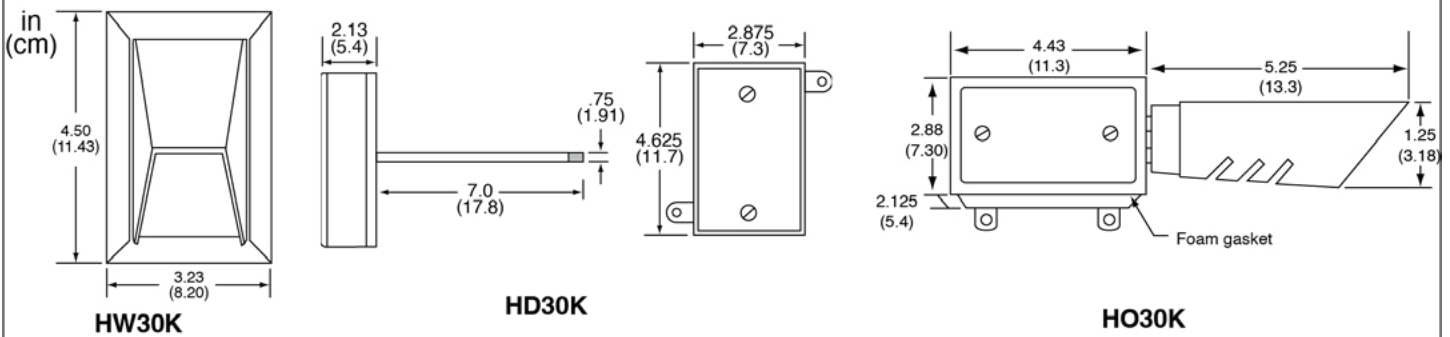
SPECIFICATIONS			
Accuracy	3% RH @ 73°F (23°C) from 5% to 90%; (0-5% & 90%-100%) add 4%	Operating Temperature	-20° to 158°F (-29° to 70°C)
Stability	Typically <0.5% drift per year	Operating Humidity	0-100% RH non-condensing
Thermal Effect	0.07% per °F	Enclosure Rating	
Supply Voltage	9.5-28 VDC, loop powered	Room	NEMA 1
Signal Output	4-20 mA @ 725Ω, optional thermistors, RTD	Duct/OSA	NEMA 4, weather resistant cast aluminum
Measurement Range		Wiring Terminations	Terminal block (22 to 16 AWG)
RH	0-100%	Weight	
Temperature	-20° to 140°F (29° to 60°C)	Wall	0.3 lb (0.09 Kg)
Sensor Protection	HDPE FGX filter (duct and OSA)	Duct	1.14 lb (0.52 Kg)
		OSA	1.2 lb (0.54 Kg)
		Approvals	RoHS
		Warranty	1 year

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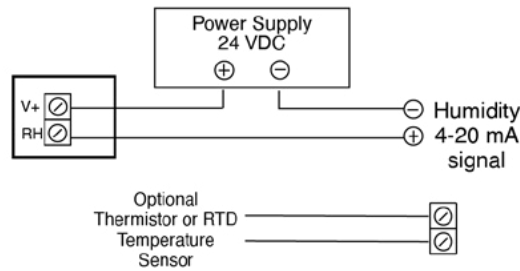
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DIMENSIONS



WIRING - RH ONLY AND "T" TEMPERATURE OPTION



Room, Duct, OSA (RH or RH-T)

MOUNTING

DIAGRAM 1: The transmitter should be mounted so that the 9" (22.86 cm) probe is in the center of the duct. The transmitter should be duct mounted away from fans, corners, heating and cooling coils and other equipment that will affect the measurement of relative humidity.

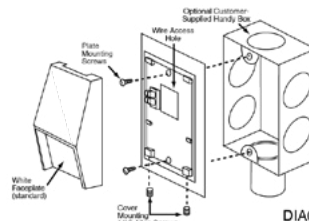
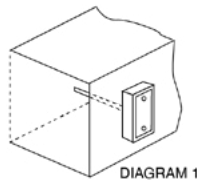
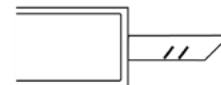


DIAGRAM 2: The sensor should be mounted approximately 5" (12.7 cm) above the floor on an interior wall, away from any heating or cooling generating devices. Basic model comes with screw terminal block, two #6-32 screws for handybox mounting, and two #6 x 1" screws for direct wall mounting. Cover screws are #6-32 with a 1/16 allen key head. Precautions should be taken to prevent air infiltration from inside the wall.

MOUNTING OSA SENSOR

The transmitter should be mounted preferably on the north side (Northern Hemisphere) of a building under the eave, not above windows or doors. The transmitter should be mounted horizontally with the sensor slots pointing down.



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ORDERING

MODEL	DESCRIPTION
HW30K	3% beige room humidity transmitter, 4-20 mA output
HD30K	3% duct-mount humidity transmitter, 4-20 mA output
HO30K	3% OSA-mount humidity transmitter, 4-20 mA output
OPTIONS (Temperature Sensors or Transmitters)	
--	No temperature sensor
T3	10,000 Ω thermistor @ 77°F (25°C), Type III
T11K	10,000 Ω thermistor @ 77°F (25°C), Type III, with 11K shunt
T21	2252 Ω thermistor @ 77°F (25°C), Type II
T22	3000 Ω thermistor @ 77°F (25°C), Type II
T24	10,000 Ω thermistor @ 77°F (25°C), Type II
T42	20,000 Ω thermistor @ 77°F (25°C), Type IV
T63	1000 Ω nickel RTD @ 70°F (26°C)
T81	100 Ω RTD @ 32°F (0°C), 385 platinum curve
T85	1000 Ω 385 platinum RTD

HD30K - T3

Example: HD30K-T3 Duct-mount humidity sensor with 10 k Ω Type III temperature sensor

RELATED PRODUCTS

DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT
DCPA-1.2	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT