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H_20K SERIES

2% WALL, DUCT, AND OSA HUMIDITY TRANSMITTERS HUMIDITY

BRAND: KELE



The **Kele Series H_20K Humidity Transmitters** have been specifically designed for use in HVAC/BAS applications. These instruments measure relative humidity from 5% to 90% RH with 2% accuracy and produce a two wire 4-20 mA linear output. All are available with an optional passive RTD or thermistor.



Application

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

- 2% accuracy (5% to 90%)
- Two-wire, 4-20 mA RH output
- Optional temperature thermistor
- Optional temperature RTD

SPECIFICATIONS					
Accuracy	2% RH @ 73°F (23°C) from 5% to 90%RH; (0-5%	Operating Temperature	-20° to 158°F (-29° to 70°C)		
Stability	& 90%-100%) add 3% 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 Duct/OSA	NEMA 1 NEMA 4, weather resistant cast aluminum		
Signal Output	4-20 mA @ 725Ω, optional thermistors, RTD	Wiring Terminations	Terminal block (22 to 16 AWG)		
Measurement Range RH Temperature	0-100% -20° to 140°F (29° to 60°C)	Weight Wall Duct OSA	0.3 lb (0.09 Kg) 1.14 lb (0.52 Kg) 1.2 lb (0.54 Kg)		
Sensor Protection	HDPE FGX filter (duct and OSA)	Approvals	RoHS		
		Warranty	1 year		

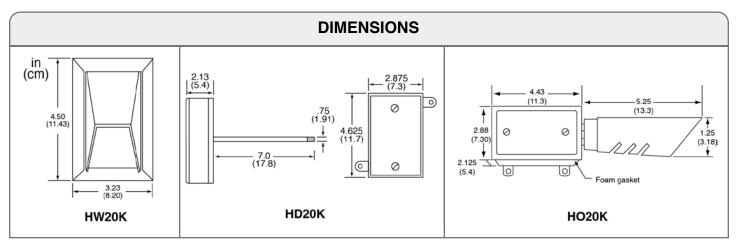
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MOUNTING ROOM AND DUCT SENSOR

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.

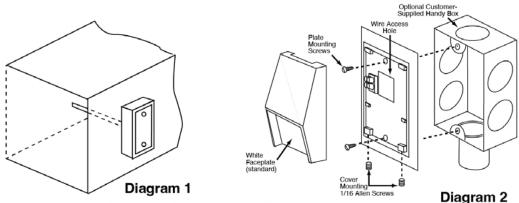
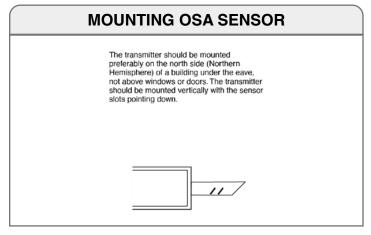
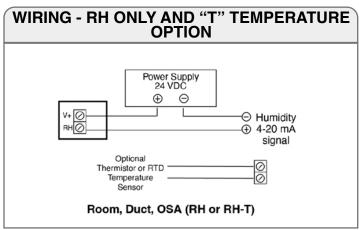


Diagram 2: The sensor should be mounted approximately 5' (12.7 cm) above the floor, on an interior wall, away from any heating or cooling generating devices. Basic model comes with screw terminal block, two #6-32 screws for handybox mounting, and two #6 x 1" screws for direct wall mounting. Cover screws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





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ORDERING				
MODEL	DEL DESCRIPTION			
HW20K	2% beige room humidity transmitter, 4-20 mA output			
HW21K	2% white room humidity transmitter, 4-20 mA output			
HD20K	2% du	2% duct-mount humidity transmitter, 4-20 mA output		
HO20K	2% OS	2% OSA-mount humidity transmitter, 4-20 mA output		
OPTIONS (Temperature Sensors or Transmitters)				
		No temperature sensor		
	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		
	T42	20,000Ω thermistor @ 77°F (25°C), Type IV		
	T63	1000Ω nickel RTD @ 70°F (26°C)		
	T81	100Ω RTD @ 32°F (0°C), 385 platinum curve		
	T85	1000Ω 385 platinum RTD		
HD20K - T3 Example: HD20K-T3 Duct-mount humidity sensor with 10 kΩ 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	

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