



# HUMIDITY

## 1% AND 2% WALL, DUCT AND OSA HUMIDITY TRANSMITTERS HT829, HT839

# MINCO



### DESCRIPTION

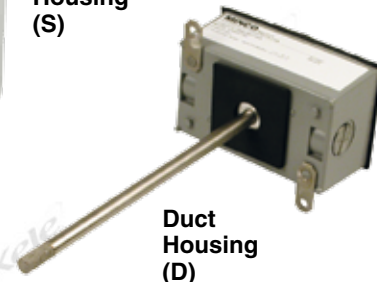
The **Minco Model HT829 Relative Humidity Transmitter** measures 0% to 100% RH over a range of -10° to 185°F (-23° to 85°C). The standard two-wire, 4-20 mA output provides low-cost space, duct, and outdoor monitoring or process and industrial building control. A temperature sensor built into the integrated circuit provides temperature compensation over the full temperature range. The **HT839 Series** has temperature transmitter output.

### FEATURES

- *Temperature-compensated IC sensor*
- *One-point field calibration, RH or temperature*
- *Weatherproof housing for OSA and duct*
- *1% or 2% RH accuracy*
- *Sintered filter*



Room Housing (S)



Duct Housing (D)

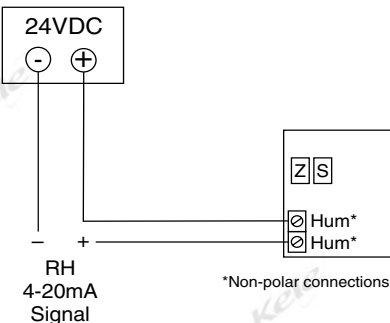


OSA / Wall Housing (O)

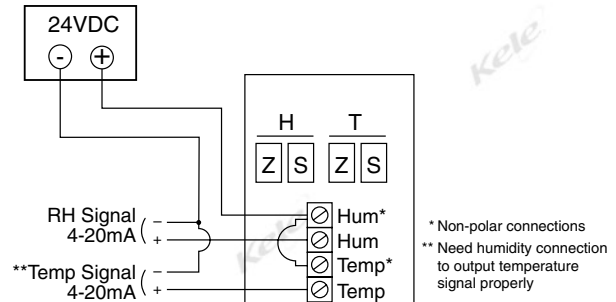
### SPECIFICATIONS

<b>Accuracy</b>	±1% from 10% to 80% RH ±2% from 0% to 90% RH	<b>Dimensions</b>	
<b>1% units</b>		<b>Room</b>	4.5"H x 2.8"W x 1.5"D (11 x 7 x 4 cm)
<b>2% units</b>		<b>Duct</b>	10.3"L x 2.8"W x 4.5"D (26.2 x 7.1 x 11.4 cm), 8.1" (20.6 cm) probe length, 0.38" (0.97 cm) Ø
<b>Time Constant</b>	50 sec in slow-moving air	<b>OSA</b>	8.6"L x 2.8"W x 2.3"D (21.8 x 7.1 x 5.8 cm), 4.1" (10.4 cm) probe length, 1.3" (3.3 cm) Ø
<b>Supply Voltage</b>	9.4 VDC min to 35 VDC max	<b>Weight</b>	
<b>Signal Output</b>	Two-wire, 4-20 mA over 0% to 100% RH @ 730Ω and temperature (HT839)	<b>Room</b>	0.19 lb (0.084 Kg)
<b>Sensing Technology</b>	Capacitive monolithic IC (Humidity)	<b>Duct</b>	1.20 lb (0.55 Kg)
<b>Sensor Protection</b>	Sintered filter (Humidity)	<b>OSA</b>	1.20 lb (0.55 Kg)
<b>Calibration</b>	One-point adjustment	<b>Warranty</b>	3 years
<b>Adjustments</b>	Zero, noninteracting		
<b>Operating Temperature</b>			
<b>Room</b>	-10° to 150°F (-23° to 66°C)		
<b>Duct/OSA</b>	-10° to 185°F (-23° to 85°C)		
<b>Wiring Terminations</b>	Nonpolar terminals, connect either way (22-14 AWG wire)		

### WIRING — HT829, RH ONLY



### WIRING — HT839, RH AND TEMPERATURE





## 1% AND 2% WALL, DUCT AND OSA HUMIDITY TRANSMITTERS HT829, HT839

### ORDERING INFORMATION

MODEL	DESCRIPTION
HT829	Relative humidity transmitter only
HT839	Relative humidity transmitter and temperature transmitter
	<b>D</b> Duct mount, weather resistant box, 8" probe
	<b>O</b> Outside air mounting, weather resistant box with weather shield
	<b>S</b> Space room/office mounting
	<b>1</b> 4-20 mA DC output
	<b>N1</b> 1% RH from 10/80% @ 25°C, temperature matched at 0°C with NIST certificate
	<b>N2</b> 2% accuracy from 0/90% @ 25°C, temperature matched at 0°C with NIST certificate
	<b>S2</b> 2% accuracy from 0/90% @ 25°C, no calibration data
	<b>EN</b> Range codes per Minco letter ranges (-20°/140°F) or (-29°/60°C) (HT839 only)
	<b>S</b> Range codes per Minco letter ranges (0°/100°F) or (-18°/38°C) (HT839 only)
	<b>A</b> Range codes per Minco letter ranges (20°/120°F) or (-7°/49°C) (HT839 only)
	<b>BI</b> Range codes per Minco letter ranges (30°/130°F) or (-1°/54°C) (HT839 only)
	<b>N</b> Range codes per Minco letter ranges (32°/122°F) or (0°/50°C) (HT839 only)
	<b>H</b> Range codes per Minco letter ranges (40°/90°F) or (4°/32°C) (HT839 only)
	<b>--</b> Range codes per Minco letter ranges in the catalog (HT839 only)
	<b>SX</b> Special range on next item line, -xxx/-yyyE, i.e., -20°/120°F (HT839 only)

**Example:** HT839D1S2A 2% RH and temperature duct transmitter with 8" probe, temperature ranged for 20°/120°F

**DCPA-1.2**  
**DCP-1.5-W**

#### RELATED PRODUCTS

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