

Relative Humidity Temperature Transmitters

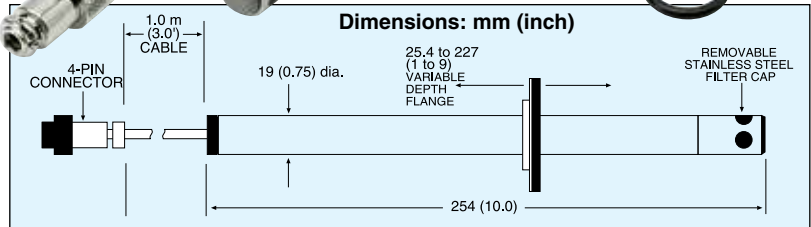


HX94 Series



- ✓ Stainless Steel NEMA 4 Housing
- ✓ 3 Different Output Connection Styles Available for Mounting Versatility
- ✓ 4 to 20 mA/0 to 1 Vdc Outputs
- ✓ Removable Stainless Steel Sensor Filter for Cleaning Ease
- ✓ RoHS 2 Compliant

The HX94 relative humidity/temperature transmitter provides a reliable and low cost method for duct mount monitoring applications. Solid state sensors provide excellent sensitivity, fast response, and stability. Simple hookup and linearized output permit interfacing with most display and control devices.



Voltage Output:

HX94V: 0 to 1.0 V (0 to 100% RH)

Time Constant: (for 90% response at 25°C; in moving air, 1m/sec.)

Less than 20 seconds, 10 to 90% RH

Less than 30 seconds, 90 to 10% RH

TEMPERATURE

Thin-Film 100 Ω Platinum RTD (DIN 43760)

Input Voltage Range:

6 to 30 Vdc, (polarity protected)

Range: 0 to 100°C (32 to 212°F)

Accuracy: ±0.6°C (±1°F)

Repeatability: ±0.3°C (±0.5°F)

Current Output:

HX94C: 4 to 20 mA for 0 to 100°C

Voltage Output:

HX94V: 0 to 1.0V for 0 to 100°C

Time Constant: (for 60% response)

Less than 2 sec in moving air

(1m/sec) less than 10 sec in still air

MECHANICAL

Housing: Stainless steel NEMA 4 enclosure

Probe: 25.4 x 19 mm (10 x 0.75") dia., 305 mm (12") cable

Duct Flange: Removable, variable 25.4 to 227 mm (1 to 9") depth; 70 mm (2.75") dia., duct hole 21 mm (0.812") dia. 4 mtg holes. 4 mm (0.156") dia. (for #6 sheet metal screws) on 51 mm (2.00") dia. circle; wall mounting bracket included

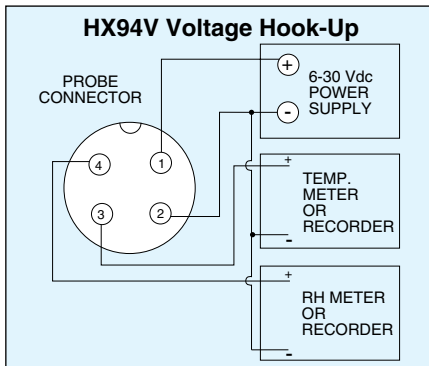
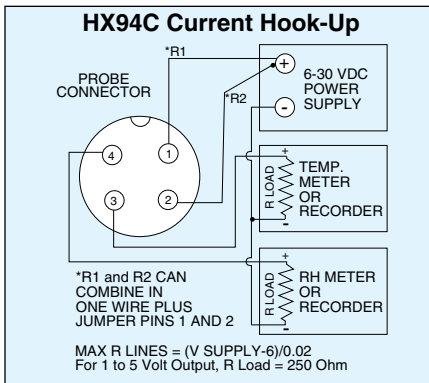
Connections:

HX94C/94V: 4 pin mating connector accepts 26 to 18 AWG wires

HX94CW/94VW: 1 m (3') braided and shielded cable, PVC sheathing

HX94CNPT/94VNPT: ½" male NPT conductor with 1 m (3') braided/shielded cable

Weight: 198 g (7 oz) with duct flange



Specifications

RELATIVE HUMIDITY

Thin-Film Polymer Capacitor

Input Voltage Range:

6 to 30 Vdc, (polarity protected)

Range/Accuracy/Repeatability:

3 to 95% RH/±2% RH/±1% RH

Temperature Compensation:

-20 to 85°C (4 to 185°F)

Current Output:

HX94C: 4 to 20 mA (0 to 100% RH)

To Order

Model No.	Description
HX94C	RH/temp transmitter with 4 to 20 mA outputs with 4 pin connector
HX94V	RH/temp transmitter with 0 to 1 Vdc outputs with 4 pin connector
HX94CW	RH/temp transmitter with 4 to 20 mA outputs with 1 m (3') lead wires
HX94VW	RH/temp transmitter with 0 to 1 Vdc outputs with 1 m (3') lead wires
HX94CNPT	RH/temp transmitter with 4 to 20 mA outputs with ½" male NPT fitting and 1 m (3') leads
HX94VNPT	RH/temp transmitter with 0 to 1 Vdc outputs with ½" male NPT fitting and 1 m (3') leads
HX94-MC	Spare 4 pin mating connector
PSR-24S	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, screw terminals, UL
PSR-24L	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, stripped leads, UL
PSR-24L-230	Regulated power supply, European plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads
PSU-93	Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal
TX4-100	4 conductor shielded transmitter cable, 30 m (100')
CAL-3-HU	NIST-traceable calibration

Comes with mating connector, removable protective sensor filter, removable duct flange, wall mounting bracket, and operator's manual.

Ordering Example: HX94C, duct mount RH/temperature transmitter with 4 to 20 mA output.