Relative Humidity Temperature Transmitters
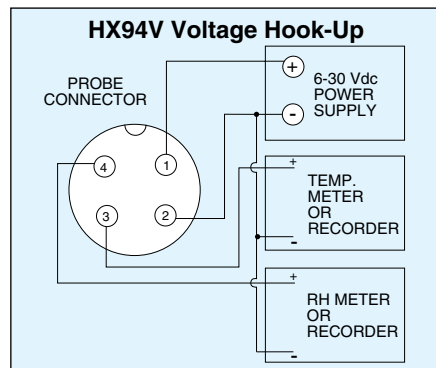
OE OMEGA®

HX94 Series

1 YEAR WARRANTY

- ✔ **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**
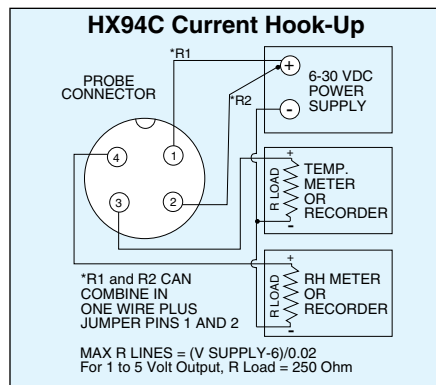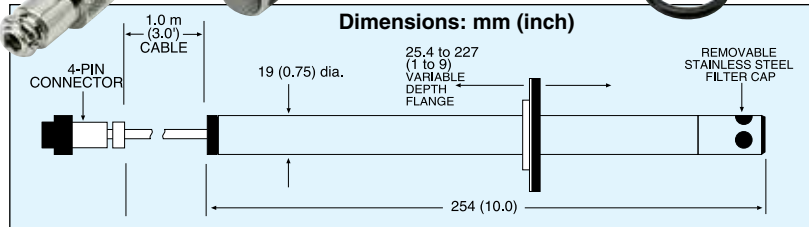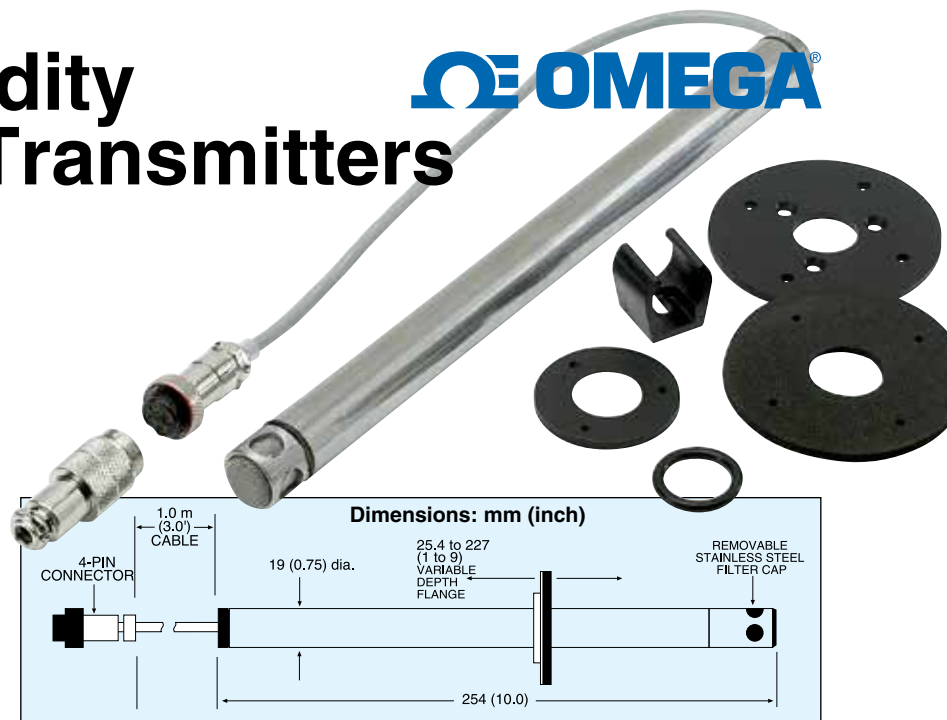- ✔ **RoHS 2 Compliant**

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.

Dimensions: mm (inch)

1.0 m (3.0') CABLE · 4-PIN CONNECTOR · 19 (0.75) dia. · 25.4 to 227 (1 to 9) VARIABLE DEPTH FLANGE · REMOVABLE STAINLESS STEEL FILTER CAP · 254 (10.0)

HX94C Current Hook-Up

*R1 and R2 CAN COMBINE IN ONE WIRE PLUS JUMPER PINS 1 AND 2

MAX R LINES = (V SUPPLY-6)/0.02
For 1 to 5 Volt Output, R Load = 250 Ohm

HX94V Voltage Hook-Up

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)

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: 254 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

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.*