

# RH/Temp Humidity Transmitters

## Wall, Duct Mount, and Remote Probe Models

### With Optional Dual Built-In Displays

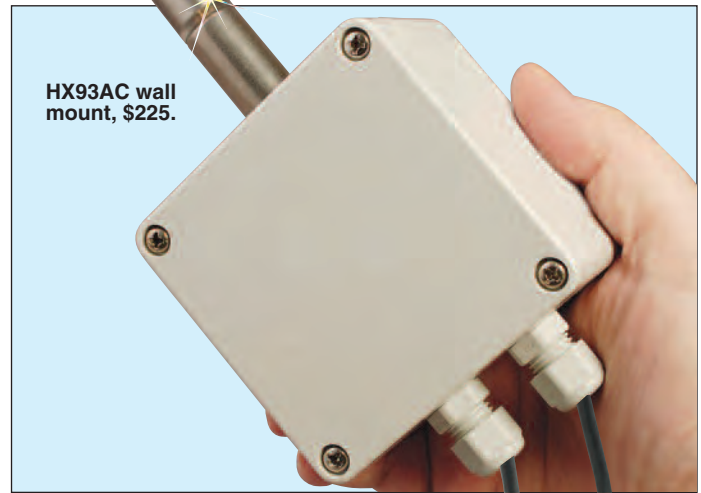
HX93AC  
Starts at  
**\$225**  
(without displays)



- ✓ 4 to 20 mA or 0 to 1 Vdc Output for Both RH and Temperature
- ✓ Splashproof Enclosure
- ✓ Accurate to 2.5% RH and 0.6°C
- ✓ New Models with Built-In Display to Indicate Humidity and Temperature
- ✓ Duct Mount Kit Included with Duct Mount and Remote Probe Models

The HX93DA and HX93A Series transmitters provide remote and on-site monitoring of relative humidity and temperature. Both series output a linearized current or voltage signal proportional to the measured humidity or temperature. RH outputs are temperature compensated. Current output models enable placing of the transmitter at a remote location virtually any distance away from the measuring device. The HX93DA models feature built-in dual displays that indicate both humidity and temperature simultaneously. All use a thin-film polymer capacitor to sense relative humidity and a Platinum 100 Ω RTD to sense temperature. A stainless steel mesh type filter, easily removable for cleaning, protects the sensors. Mounting screws are easily accessible inside the rugged, polycarbonate enclosure which houses and protects the electronics to NEMA 13 specifications.

† Refer to ordering chart on next page for NIST calibration ordering information.



HX93AC wall mount, \$225.

### Relative Humidity Control System

The HX93A and HX93DA Series interface directly with OMEGA's **iSeries** meters and controllers to create a complete relative humidity control system.

**iSeries** meters and controllers feature totally programmable color displays and embedded internet connectivity. See Section "M" for meters and "P" for controllers.



DPi32 ½ DIN temperature/process meter, \$150, shown actual size.



HX93AC-D duct mount, \$235, shown smaller than actual size.

- ✓ Rugged Industrial Splashproof Design
- ✓ "Humidity Only" Models Also Available, see page Hu-17 for HX92A Series

**Models with Built-In Displays**

HX93A(\*)-RPI remote probe humidity transmitter, \$265, shown smaller than actual size, supplied with a 1 m (3') cable attached to a 124.5 mm (4.9") stainless steel probe.



HX93DAC, \$375, shown smaller than actual size.

**Displays Both Humidity and Temperature Simultaneously!**



**Specifications**

**Input Voltage Range:** 24 Vdc nominal

HX93A Series: 6 to 30 Vdc

HX93DA Series: 12 to 30 Vdc

**Measuring Range**

**RH:** 3 to 95%

**Temperature:** -20 to 75°C (-4 to 167°F)

**Accuracy**

**RH:** ±2.5% RH from 20 to 80%RH; ±3.1% RH below 20 and above 80% RH @ 25°C (76°F) with temp coefficient of ±0.1% RH/°F

**Temperature:** 0.6°C (±1°F)

**Output**

**HX93AC or HX93DAC:**

4 to 20 mA for 0 to 100% RH and -20 to 75°C (-4 to 167°F)

**HX93AV:** 0 to 1 Vdc for 0 to 100% RH and -20 to 75°C (-4 to 167°F)

**RH Temperature Compensation:**

-20 to 75°C (-4 to 167°F)

**RH Time Constant (90% Response at 25°C, in Moving Air @ 1m/s):**

>10 seconds: 10 to 90% RH;

>15 seconds: 90 to 10% RH

**Repeatability:** ±1% RH, 0.5°F

**Housing:** Gray polycarbonate, (IP65, DIN 40050) NEMA rated up to 13, UL listed

**Connections:** Liquid-tight nylon with neoprene gland, for 0.09 to 0.265" diameter cable; internal 4-pin terminal block accepts 14 to 22 gauge wire

**Dimensions:**

**HX93A(\*) and HX93A(\*)-D Enclosure:** 79.8 x 81.8 x 54.9 mm (3.14 x 3.22 x 2.16")

**HX93A(\*)-D Probe:** 15.7 D x 124.5 mm L (0.620 x 4.9")

**Weight:**

**HX93A(\*):** 170 g (6 oz)

**HX93A(\*)-D:** 187 g (6.6 oz)

**Displays (HX93DA Series Only)**

**Dual Miniature Loop-Powered Indicators:** 3½ digit LCD

**Reading Rate:** 2.5 times per second

**Display Accuracy:**

**Relative Humidity:** ±2.5% RH

**Temperature:** ±0.6°C (1°F)

**Display Resolution:**

**Relative Humidity:** 0.1% RH

**Temperature:** 0.1°C (0.1°F)

**Display Accuracy in Relation to Output:**

**Relative Humidity:** ±0.3% RH

**Temperature:** ±0.3°C (0.5°F)

**MOST POPULAR MODEL HIGHLIGHTED!**

**To Order (Specify Model Number)**

Model No.	Price	Description
HX93A(*)	\$225	Wall mount RH and temperature transmitter
HX93A(*)-D	235	Duct mount RH and temperature transmitter
HX93A(*)-RP1	265	Remote probe relative humidity/temp transmitter
HX93DAC-(**)	375	Wall mount, dual display RH/temperature transmitter/indicator
HX93DAC-D-(**)	385	Duct mount, dual display RH/temperature transmitter/indicator
HX93DAC-RP1-(**)	415	Remote probe, dual display RH/temperature transmitter/indicator
HX92-CAL	65	Calibration kit, 11 and 75% RH standards
PSR-24S	60	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, screw terminals, UL
PSR-24L	60	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, stripped leads, UL
PSR-24L-230	60	Regulated power supply, European plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads, CE
PSU-93	40	Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal
TX4-100	35	4-conductor shielded transmitter cable 30 m (100')
CAL-3-HU†	125	NIST-traceable calibration
HX90DM-KIT	12	Spare duct mount kit [for HX93DAC-(**)-D, HX93DAC-(**)-RP1, HX93A(*)-D & HX93A(*)-RP1 models only]

\* For 4 to 20 mA output, specify "C" or for 0 to 1 Vdc output specify "V".

\*\* For temperature display in °C insert "C" or for temperature display in °F insert "F".

Ordering Example: HX93DAC-F, wall mount, dual display RH/temp transmitter indicator with °F display with 4 to 20 mA output, with HX92-CAL calibration kit, \$375 + 65 = \$440.



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1-800-TC-OMEGA  
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