

Relative Humidity Transmitter Wall, Duct Mount, and Remote Probe Models

HX92A
Starts at
£127



- ✓ 4 to 20 mA or 0 to 1 V Output
- ✓ Compact Size for Mounting Versatility
- ✓ Watertight Enclosure
- ✓ Accurate to 2.5% RH

The HX92A is an economical humidity transmitter, providing on-site continuous monitoring of relative humidity. It is available with either voltage or 2-wire current output. The transmitter output is linearized, and RH readings are temperature compensated. A thin-film polymer capacitor senses relative humidity. The sensor is protected by a stainless mesh-type filter that is easily removable for cleaning. The case has weathertight protection, and screws are provided for mounting the unit via internal holes. An unusually low minimum voltage of 6 V allows the use of large impedances for longer wire runs. The HX93A is a similar unit that provides transmitter outputs for both humidity and temperature.

Specifications

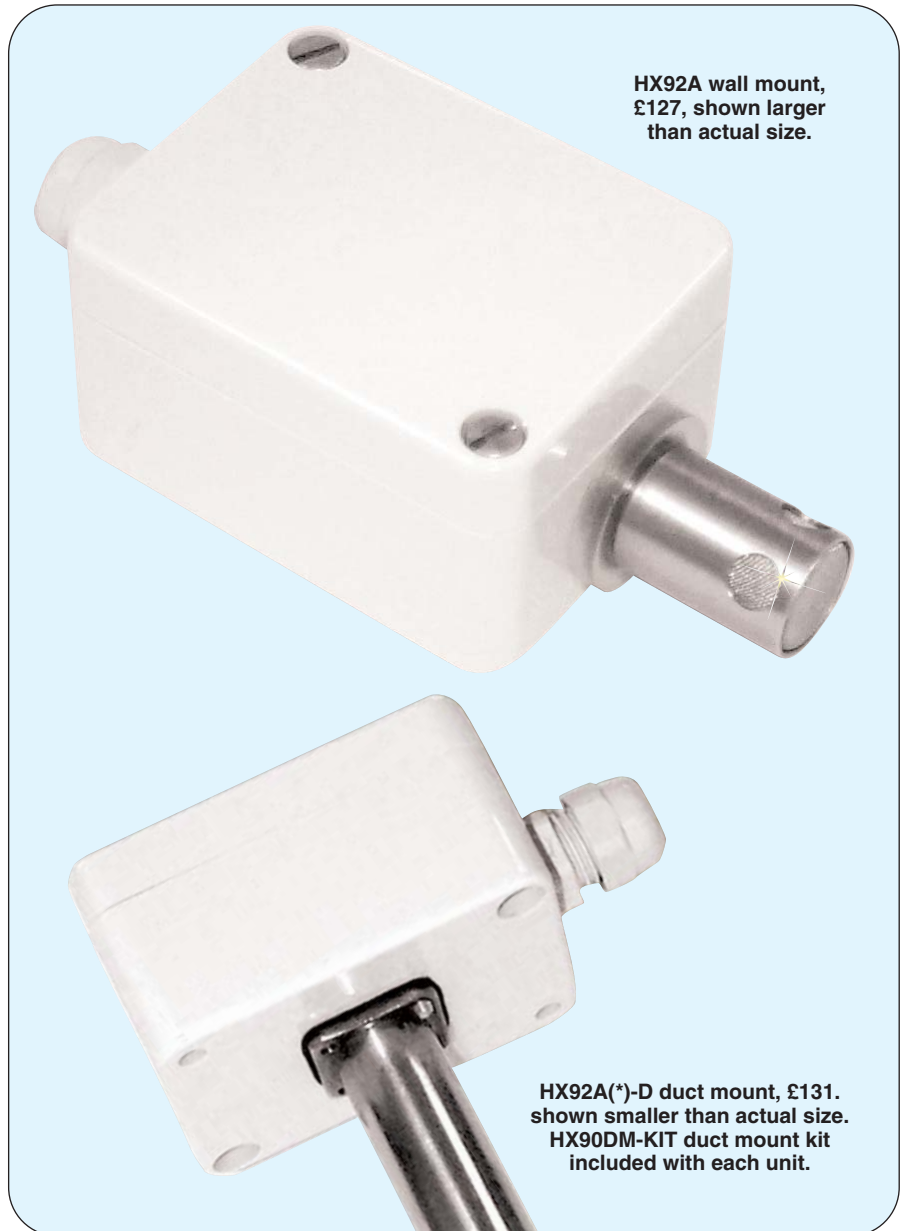
Input Voltage Range:

24 Vdc nominal (6 to 30 Vdc)

Measuring Range RH: 3 to 95%

Temperature:

-20 to 75°C (-4 to 167°F)



HX92A wall mount, £127, shown larger than actual size.

HX92A(*)-D duct mount, £131. shown smaller than actual size. HX90DM-KIT duct mount kit included with each unit.

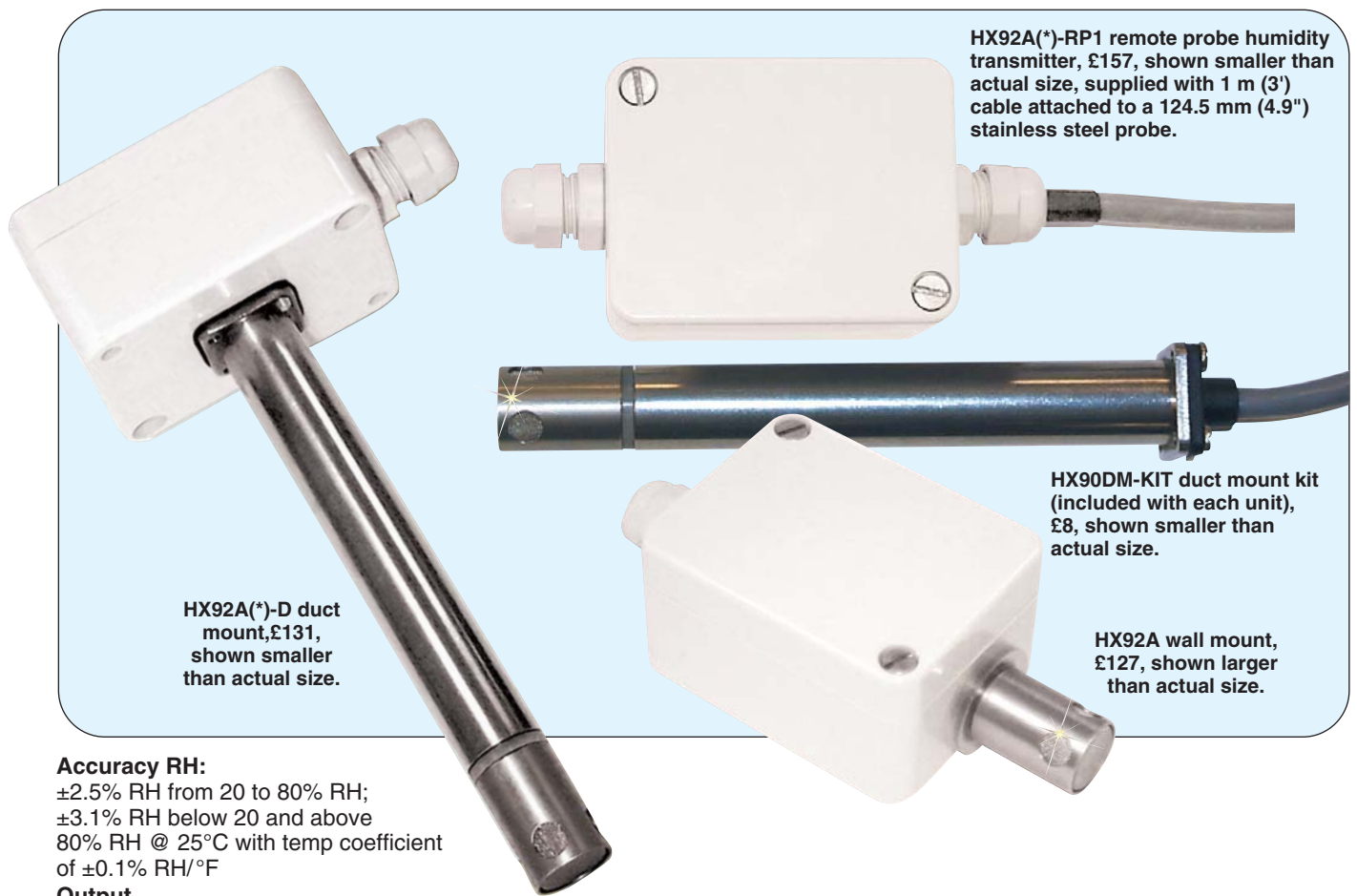
Relative Humidity Control System

The HX92A and HX92A(*)-D 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 colour displays and embedded internet connectivity. See Section "M" for details.



DPI32 ¹/₄ DIN temperature/process meter shown actual size.



HX92A(*)-D duct mount, £131, shown smaller than actual size.

HX92A(*)-RP1 remote probe humidity transmitter, £157, shown smaller than actual size, supplied with 1 m (3') cable attached to a 124.5 mm (4.9") stainless steel probe.

HX90DM-KIT duct mount kit (included with each unit), £8, shown smaller than actual size.

HX92A wall mount, £127, shown larger than actual size.

Accuracy RH:

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

Output

HX92AC: 4 to 20 mA for 0 to 100% RH
HX92AV: 0 to 1 Vdc for 0 to 100% RH

RH Temperature Compensation:

-20 to 75°C (-4 to 167°F)

RH Time Constant

(90% response at 25°C, in moving air at 1m/s):

>10 seconds, 10 to 90% RH
 >15 seconds, 90 to 10% RH

Repeatability: ±1% RH, 0.5°F

Housing: ABS plastic watertight enclosure; meets NEMA 1, 2, 3, 3R, 4, 4X, 5, 12 and 13 specifications

Connections: Liquid-tight nylon with neoprene gland, for 2 to 7 mm (0.09 to 0.265") diameter cable; internal 4-pin terminal block accepts 14 to 22 gage wire

Dimensions

HX92A(*) & HX92A(*)-D: Enclosure: 49.8 x 64.8 x 34.8 mm (1.96 x 2.55 x 1.37")
HX92A(*)-D: Probe: 15.7 D x 124.5 mm L (0.620 x 4.9")

Weight

HX92A(*): 82 g (2.9 oz);
HX92A(*)-D: 100 g (3.5 oz)

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

| Model No. | Price | Description |
|-----------------------|--------------|---|
| HX92A(*) | £127 | Wall mount relative humidity transmitter |
| HX92A(*)-D | 131 | Duct mount relative humidity transmitter (includes HX90DM-KIT) |
| HX92A(*)-RP1 | 157 | Remote probe RH transmitter (includes HX90DM-KIT) |
| HX92-CAL | 43.50 | Calibration kit, 11 and 75% RH standards |
| PSR-24L-230-UK | 40 | Regulated power supply, UK plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads |
| PSR-24L-230 | 40 | Regulated power supply, European plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads |
| TX4-100 | 23.50 | 4-conductor shielded transmitter cable, 30 m (100') |
| CAL-3-HU | 90 | Traceable calibration certificate with test results |
| HX90DM-KIT | 8 | Duct mounting kit (for HX92A(*)-D or HX92A(*)-RP1 only) |

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

Ordering Example: HX92AC, humidity transmitter with current output, with HX92-CAL, calibration kit and PSR-24L-230-UK, power supply, £127+ 43.50 + 40 = £210.50.



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• Flow and Level

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• pH and Conductivity

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters