

# Relative Humidity Transmitters

## Wall, Duct Mount, and Remote Probe Models



### HX92B Series



Optional

- ✓ 4 to 20 mA, 0 to 1 Vdc, 0 to 5 Vdc or 0 to 10 Vdc Outputs
- ✓ Accurate to  $\pm 2.5\%$  (20 to 80% Relative Humidity)
- ✓ Rugged Industrial Splashproof Enclosure NEMA 13 (IP54)
- ✓ Duct Mount Kit Included with Duct Mount and Remote Probe Models
- ✓ Field Replaceable Sensor Probe (Except for Duct Mount Model)

The HX92B Series transmitters provide remote and on-site monitoring of relative humidity. It is available with either voltage or 2-wire current output. The transmitter output is linearized and temperature compensated. Current output models enable placing of the transmitter at a remote location virtually any distance away from the measuring device. All models use an accurate digital sensor. A stainless steel mesh type filter, easily removable for cleaning, protects the sensor. Mounting screws are easily accessible inside the rugged, polycarbonate enclosure which protects the electronics to NEMA 13 (IP54) specifications.

### Specifications

#### Input Power:

- 4 to 20 mA: 9 to 30 Vdc @ 50 mA
- 0 to 1V: 9 to 30 Vdc @ 50 mA
- 0 to 5V: 9 to 30 Vdc @ 50 mA
- 0 to 10V: 12 to 30 Vdc @ 50 mA

**Measuring Range:** 0 to 100% RH

**Accuracy:**  $\pm 2.5\%$  from 20 to 80% RH;  $\pm 3.5\%$  from 5 to 20% and 80 to 95% RH;  $\pm 4\%$  from 0 to 5% and 95 to 100% RH

### Relative Humidity Control System

The HX92B Series interfaces 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.



HX92B(\*) wall mount shown smaller than actual size.

DPI32 1/2 DIN temperature/process meter.

#### Output:

- HX92BC:** 4 to 20 mA for 0 to 100% RH
- HX92BV0:** 0 to 1 Vdc for 0 to 100% RH
- HX92BV1:** 0 to 5 Vdc for 0 to 100% RH
- HX92BV2:** 0 to 10 Vdc for 0 to 100% RH

#### Relative Humidity Temperature Compensation:

-30 to 75°C (-22 to 167°F)

#### Relative Humidity Response Time:

8 second typical

**Repeatability:**  $\pm 0.1\%$  RH

**Sample Rate:** 1 sample every 4 seconds

**Housing:** Gray polycarbonate, NEMA 13 (IP54)

**Connections:** Liquid-tight nylon with neoprene gland, for 2.29 to 6.73 mm (0.09 to 0.265") diameter cable; internal 5 position terminal block accepts 14 to 22 gauge wire

#### Dimensions:

**HX92B(\*) (without Probe):**

65 L x 50 W x 34.8 D mm (2.56 x 1.97 x 1.37")

**TP-SP (Short Probe):**

16 dia. x 71.88 L mm (0.63 x 2.83")

#### Weight:

**HX92B(\*):** 124 g (4.4 oz)

**HX92B(\*)-D:** 132 g (4.7 oz)

**HX92B(\*)-RP1:** 230 g (8.1 oz)



Easy M12 Connection

TH-SP short probe with M12 connector.

Field Replaceable Probes!

HX92B wall mount shown larger than actual size.



TH-RP remote probe with 3 m (10') cable and M12 connector.

**Field Replaceable Parts**

The HX92B Series has an M12 probe connection, that allows for easy probe replacement. The user can even switch the TH-SP short probe for a TH-RP remote probe with a 3 m (10') cable (not available with duct mount models).



HX92B(\*)-D duct mount transmitter shown smaller than actual size.

**To Order**

Model No.	Description
HX92B(*)	Wall mount relative humidity transmitter
HX92B(*)-D	Duct mount relative humidity transmitter
HX92B(*)-RP1	Remote probe relative humidity transmitter

**Accessories**

Model No.	Description
TH-RP	Field replaceable remote probe with 3 m (10') cable and M12 connector
TH-SP	Field replaceable 71.88 L mm (2.83") short probe with M12 connector
IND-KIT	Duct mounting kit for HX92B(*)-D or HX92B(*)-RP1 only

Comes complete with quick start manual.

\* For 4 to 20 mA output specify "C", for 0 to 1 Vdc output specify "V0", for 0 to 5 Vdc output specify "V1", and for 0 to 10 Vdc output specify "V2".