Humidity/Temperature Transmitters

HX300A Series

- Fast, Stable, and Accurate
- Watertight Enclosure
- Compact, Easy to Use
- Excellent Long-Term Stability
- Wide Input Voltage Range (12 to 40 Vdc)
- Available with Either Current or Voltage Output
- On-Site, 2-Point Calibration (Zero and Span)

The HX300A Series transmitter is designed for industrial environments requiring fast, stable, and accurate measurements. It employs a highly stable thin-film polymer capacitor to sense relative humidity, and a high-accuracy, thin-film RTD to accurately sense temperature.

Specifications

Measurement Range (Humidity): 0 to 100% RH @ 0 to 50°C (32 to 122°F)

Measurement Range (Temperature): 0 to 100°C (32 to 212°F)

Accuracy (25°C): ±2.5% RH, ±0.3°C

Long-Term Stability: Better than 1% RH per year (typical)

Temperature Compensation: 0.008% RH/°C (effect @ 05 RH)

Response: <15 seconds (90% @ 25°C in moving air at 0.5 m/sec)

Sensors:
- Humidity: Thin-film capacitor
- Temperature: RTD PT100 Ω, IEC 751, DIN 43760

Output:
- Current: 4 to 20 mA, 2-wire ±15% scalable zero and span adjustment
- Voltage: 0 to 1V

Supply Voltage: 12 to 40 Vdc (24 Vdc recommended)

Sensor Protection: Sintered filter

Housing: ABS plastic watertight enclosure to NEMA 4 (IP65)

Connections: Liquid-tight nylon, cable bushing fits 5 to 10 mm dia. (0.2 to 0.4") cables

Operating Temperature: 0 to 50°C (32 to 122°F)

Weight: Approx 150 g (5.3 oz)

Optional

HX303AC shown smaller than actual size.

On Site Calibration and Wiring

K1: Mode
K2: Increase value
K3: Decrease value
D7~D9: LED indicator

Dimensions:

<table>
<thead>
<tr>
<th>Dimensions: mm (inch)</th>
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</thead>
<tbody>
<tr>
<td>90° (3.54)</td>
</tr>
<tr>
<td>38 (1.5)</td>
</tr>
<tr>
<td>77° (3.03)</td>
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<tr>
<td>75 (3°)</td>
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</table>

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To Order Visit omega.com/hx300gb for Pricing and Details

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>HX303AC</td>
<td>Wall mount RH/temperature transmitter, 4 to 20 mA current outputs</td>
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<tr>
<td>HX303AV</td>
<td>Wall mount RH/temperature transmitter, 0 to 1 voltage outputs</td>
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<td>HX302AV</td>
<td>Wall mount RH transmitter, 0 to 1 voltage output</td>
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<tr>
<td>PSR-24S</td>
<td>Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, screw terminals, UL</td>
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<tr>
<td>PSR-24L</td>
<td>Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, stripped leads, UL</td>
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<tr>
<td>PSR-24L-230</td>
<td>Regulated power supply, European plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads, CE</td>
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<tr>
<td>PSU-93</td>
<td>Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal</td>
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<tr>
<td>CAL-3-HU</td>
<td>NIST-traceable calibration</td>
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</table>

Comes complete with operator's manual.

Ordering Examples: HX303AC, wall mount RH/temperature transmitter with current outputs. HX303AV, wall mount RH/temperature transmitter with voltage outputs and PSR-24L, power supply.