

Transmitter - Series 702

- **Supply voltage:**
230 or 110Vac
24Vac or 24Vdc isolated
- **EMC compatibility**
EN 50081-1 & EN 50082-2
- **±2% RH accuracy**
- **User-selectable output ranges**



The Series 702 Transmitter is designed for Wall-Mounted installations where there is a need to accurately and reliably measure ambient Relative Humidity and Temperature (HT-702) or Relative Humidity only (HX-702). The transmitter continuously measures the ambient humidity and provides an accurate, linear analog output signal proportional to 0 to 100% RH. The unit is powered by a 230Vac, 110Vac, 24Vac or 24Vdc isolated power supply.

The output signal corresponds to 0-100% RH; and the accurate working range is 5-95% RH.

The transmitter features dipswitch selectable outputs for 0-1V, 0-5V, 0-10V or 0/4-20 mA.

The optional temperature transmitter also offers user-selectable output ranges, as well as free selectable scaling for both zero and span.

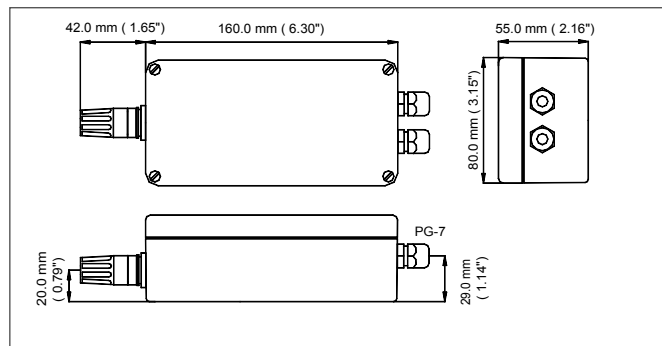
The unit can be equipped with an external temperature sensor (Pt100 or thermistor).

The 702 utilizes a thin-film polymer humidity sensor which provides excellent long-term stability and fast response. For dusty environments there are several filter options available. Consult Rense for the best filter option.

The electronic SMT circuitry is enclosed in a rugged IP65 (NEMA-4) polycarbonate housing, and the transmitter complies with CE standards.

Typical Applications

- ▶ Energy management
- ▶ HVAC
- ▶ Storage
- ▶ Textiles
- ▶ Warehouses



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Relative Humidity Transmitter

Range	0 to 100% RH
Working Range	5 to 95% RH
Output	User-selectable 0-1V, 0-5V, 0-10V, 0-20 mA or 4-20 mA (standard setting 0-10V)
Temperature drift	0.05% RH per °C typical
Accuracy @ 25°C	±2% RH
Power supply	230Vac ±15%, 50/60 Hz 110Vac ±15%, 50/60 Hz 24Vac ±20% isolated, 50/60 Hz 24Vdc ±20% isolated
Response time	60 sec typical, without filter (90% of the change)
Stability	±2% RH, 24 months typical depending on environmental conditions
Operating temperature	-20 to +60 °C (-4 to 140 °F)
Calibration points	2 point calibration

Temperature Transmitter

Range	User-selectable with dipswitches
Zero selection	Ten 50 °C steps between -50 °C and +150°C
Span selection	Ten 50 °C steps between +10 and +250°C
Accuracy	±0.2 °C typical
Sensor element	Ni1000 1/3 DIN B

Housing

Material	Polycarbonate
Weight	Approximately 0.4 lbs (0.2 kg)

All specifications are subject to change without prior notice

Order information

Description	Model
Wall mount humidity transmitter, 230Vac Power supply	HX-702-T-00
Wall mount humidity + Temperature transmitter, 230Vac Power supply	HT-702-T-00
Wall mount humidity transmitter + Pt100 1/3 DIN B, 230Vac Power supply	HT-702-T-01
Wall mount humidity transmitter, 24Vac Power supply, isolated	HX-702-T-02
Wall mount humidity + Temperature transmitter, 24Vac Power supply, isolated	HT-702-T-03
Wall mount humidity transmitter + Pt100 1/3 DIN B, 24Vac Power supply, isolated	HT-702-T-04
Wall mount humidity transmitter, 24Vdc Power supply, isolated	HX-702-T-05
Wall mount humidity + Temperature transmitter, 24Vdc Power supply, isolated	HT-702-T-05
Wall mount humidity transmitter + Pt100 1/3 DIN B, 24Vdc Power supply, isolated	HT-702-T-06
Wall mount humidity transmitter, 110Vac Power supply	HX-702-T-07
Wall mount humidity + Temperature transmitter, 110Vac Power supply	HT-702-T-07
Wall mount humidity transmitter + Pt100 1/3 DIN B, 110Vac Power supply	HT-702-T-08
PVDF Dust Filter	A-000014

HEAD OFFICE



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