



Transmitter HT-761

- Digitally adjustable no potentiometers
- Relative Humidity, Absolute Humidity and Dewpoint versions
- Small size .47 dia x 4.17 inches
- Excellent linearity



The HT-761 Relative Humidity & Temperature Transmitter provides linear analog outputs directly proportional to relative humidity and temperature. It features digital zero and span adjustment, a rugged potted housing, and a miniature electrical connector for easy replacement. The unit has completely sealed electronics and meets CE requirements.

The HT-761 provides a linear 0 to 1 Vdc or 0 to 10 Vdc signal directly proportional to 0 to 100% RH. In addition, it has an integrated

temperature transmitter that provides a 0 to 1V or 0 to 10V signal for a 0 to 100°C or -20 to +80 °C temperature range.

The HT-761 utilizes a thin-film polymer humidity sensor that provides excellent long-term stability and fast response. The sensor fully recovers from condensation.

Because the HT-761 is equipped with a micro-controller, it shows excellent linearity and an accuracy of ±2% RH from 5 to 95%RH.

Also available are dewpoint and

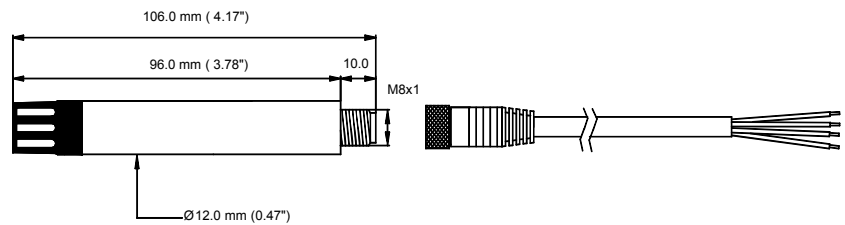
absolute humidity versions.

The micro-controller can be programmed, permitting quick and easy calibration. This approach eliminates the need for adjustment pots which can be a source of error, allowing the electronics to be completely sealed.

The compact size (.47 dia x 4.17 in.) and durability makes this the ideal choice for all applications that require the monitoring and controlling of humidity and temperature, including many OEM applications.

Typical Applications

- ▶ Climate rooms
- ▶ Incubators
- ▶ Bakery machines
- ▶ Greenhouses
- ▶ Warehouses
- ▶ HVAC installations
- ▶ Energy management



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Relative Humidity Transmitter

Range	0 to 100% RH
Output	0 to 10 Vdc (0 to 1 V optional)
Working range	5 to 95% RH
Accuracy @ 25 °C	±2% RH from 5 to 95% RH
Response time	10s typical without filter (90% of change)
Stability	±2% RH, 24 months typ, depending on environmental conditions
Supply influence	±0.01% RH per V typical

Temperature Transmitter

Range	0 to 100°C (-20 to 80°C for dewpoint model, optional for RH model)
Output	0 to 10 Vdc (0 to 1 V optional)
Working range	-20 to +80°C
Accuracy	±0.3°C
Temperature element	NTC
Supply influence	±0.01°C per V typical

Dewpoint

Range	-40 to +60°C (-40 to +140°F)
Output	0 to 10 Vdc (0 to 1 V optional)
Accuracy	Dependent on measured value (graph available)

Absolute Humidity

Range	0 to 200g/m ³
Output	0 to 10 Vdc (0 to 1 V optional)
Accuracy	Dependent on measured value (graph available)

Power supply

Supply voltage	15 to 30 Vdc (8 - 30 Vdc for 0 - 1 V output)
Supply current	~4 mA

Housing

Dimensions	.47 dia x 4.17 inches (ø12 x 107 mm)
Material	Stainless Steel
Protection grade	Electronics IP65, sensor IP30

All specifications are subject to change without prior notice.

Ordering information

Model	Description
HT-761-V-00	Humidity & Temperature Transmitter
HT-761-V-01	Dewpoint & Temperature Transmitter
HT-761-V-02	Absolute Humidity & Temperature Transmitter
Part number	Accessories
A-000003	Protection cap with slotted openings
A-000012	Teflon dust filter
A-000013	Teflon dust filter incl. protection cap
A-000022	Protection cap with wire-mesh filter
A-000033	Connector with 6 ft (2m) cable
A-000111	Flange, aluminum

HEAD OFFICE



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