

HUMIDITY TRANSMITTER

ELTA

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HUMIDITY TRANSMITTER

Overview

- Output signal 0 - 10 V DC
- Protection Class IP30
- Good long term stability
- Snap-on cover
- Resistant to contamination



Overview

The HRT room transmitters for use with our Demand Control Ventilation systems are for measuring humidity or temperature in a room.

Relative Humidity

149-DCV-HRT transmitters have a capacitive thin-film element which gives a signal that is proportional to the relative humidity. The measuring signal is converted by the built-in electronics to output signal 0 - 10V. The sensor element has rapid response to changes in humidity and excellent long-term stability. The element also has good durability in contaminated environments.

Supply Voltage

For output signal 0 - 10 V, the transmitter should be supplied with 24 V AC $\pm 10\%$ or 15 - 35 V DC. The transmitter has automatic adaptation to the connected voltage.

Accuracy at 20%

Humidity: $\pm 3\%$ RH, Temperature: $\pm 0.4^\circ\text{C}$ ($\pm 0.3^\circ\text{C}$ with temperature sensor PT1000).

Installation

The transmitter should be mounted in a location with good air circulation where it can be expected to give a representative reading. It may be mounted on a wall-box or directly on the wall. To remove the front cover, depress the locking tongue in the lower part of the casing using a 3 mm flat-blade screwdriver. Press and twist the screwdriver and at the same time pull the bottom part of the casing, slide the cover towards the top of the casing to free the hooks holding the upper edge of the front cover.

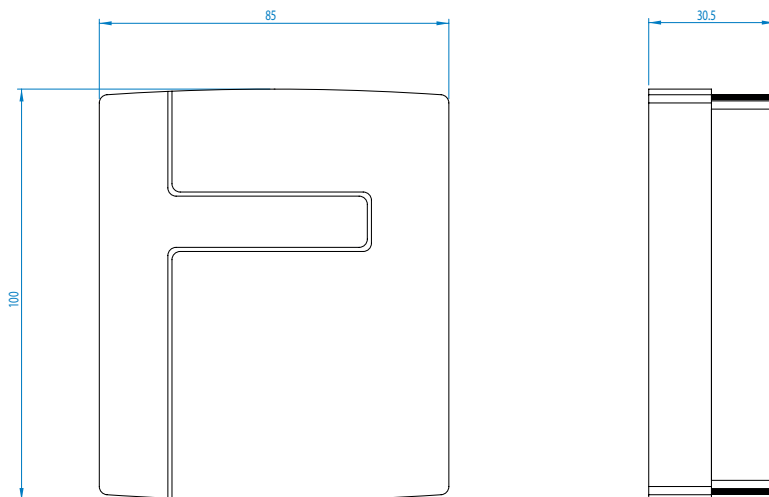
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Technical Data

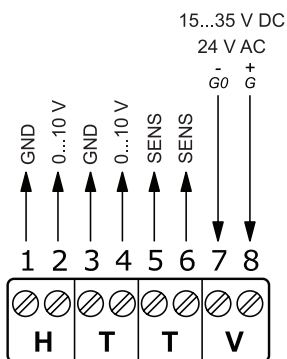
Product Code	Type	Output Signal V	Supply Voltage U_V	Power Consumption W	Electrical Connection mm ²	Storage Temperature	Protection Class
149-DCV-HRT	Humidity & Temperature Transmitter	0 - 10	24 V AC $\pm 10\%$ or 15...35 V DC	< 1 W	Screw terminals max 1.5 (AWG 16)	-25 - 60	IP30

Mode of Operation	Analogue Output	Working Range
Relative Humidity	0...10 V, $I_L < 1$ mA (0...100% RH)	0...50% RH

Dimensions



Wiring Diagram



This product conforms with the requirements of European EMC standards CENELEC EN 61000-6-1 and EN 61000-6-3 and carries the CE mark.

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