



TUA

Humidity transmitter for room mounting

Wall mounted room transmitters for measuring humidity in indoor environments.

- Output signal 0...10 V or Modbus
- With or without display
- Good long-term stability
- Humidity range 0...100 RH%

Function

The sensor is mounted in the cover-part of the casing. The cover is easy to detach from the back by means of snap-in grips and detachable terminals which makes mounting easy. Furthermore, no cables have to be disconnected, simplifying service and replacement.

RELATIVE HUMIDITY

The 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...10 V (corresponding to 0...100 % RH). 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

The transmitter uses a supply voltage of max. 24 V AC $\pm 10\%$ / 15...35 V DC.

Appearance

The transmitter comes in a discreet white housing. The version ...-D has a LCD display showing humidity value.

Installation

The transmitter should be mounted in a location with good air circulation where it can be expected to give a representative reading. It can be mounted on a wall box or directly on the wall.

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Technical data

Supply voltage	24 V AC \pm 10 % / 15...35 V DC
Power consumption	< 1 W
Transformer power	\geq 2 VA
Working range, humidity	0...100 % RH
Ambient temperature	0...50 °C
Ambient humidity	10...90 % RH (non-condensing)
Accuracy, humidity	\pm 3 % RH at 20°C
Protection class	IP30
Isolation class	III

Models

Article	Humidity range	Output signal	Display
TUA	0...100 % RH	0...10 V DC	-
TUA-D	0...100 % RH	0...10 V DC	x
TUA-M	0...100 % RH	Modbus	-
TUA-D-M	0...100 % RH	Modbus	x

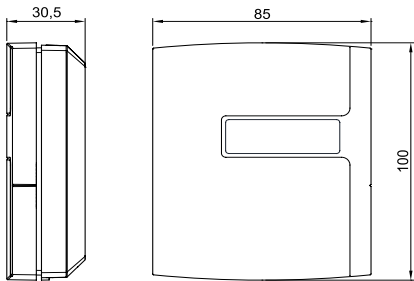
CE

Low Voltage Directive (LVD) standards: This product conforms to the requirements of the European Low Voltage Directive (LVD) 2014/35/EU through product standards EN 60730-1/A16

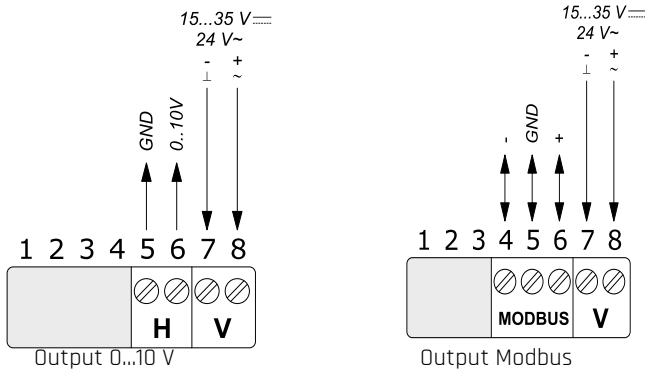
EMC emissions & immunity standards: This product conforms to the requirements of the EMC Directive 2014/30/EU through product standards EN 61000-6-1 and 61000-6-3.

RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council through standard 50581:2012.

Dimensions



Wiring



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Product documentation

Document	Description
Instruction TUA	Instruction for installation and commissioning

The product documentation can be downloaded from www.industrietechnik.it

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