Humidity - Temperature - Dew Point Transmitters & Hygrostats HVAC40 series



SIMPLE IS BEST

Blind transmitters, optionally supplied with display

COMPLETE RANGE, THE PERFECT FIT FOR HVAC

Models with **fixed vertical** probe, **duct horizontal** probe or probe **with cable**

O THE RELIABLE SOLUTION: INSTALL AND FORGET

Factory calibrated and ready for use

PERFORMS IN ANY ENVIRONMENT

Stainless steel filter to protect the sensor against dust and particles

○ FLEXIBILE RELAY SETTINGS

Settable threshold - hysteresis and delay Front alarm LED and audible alarm

HVAC40 series: the result of 40 years of knowledge combined with best practice

HVAC transmitters need to be stable, need to be low maintenance and need to last forever.

Over 40 years of experience in worldwide applications combined with a new design on accuracy, stability, simplicity and connectivity: this is the **HVAC40 series.**

Simple to use, easy to install. Made to measure for years and years without any deviation: stable and fit for the purpose.

To be connected to any building automation system: with a choice on analog outputs or with the highly stable RS485 Modbus connection.

Also available as Hygrostat with direct relay control.

Standard version supplied as a blind transmitter, but in cases where it is necessary an optional display is available for all versions.

Simple to install, simple to use. Fit for the application: best quality at best cost!





MAIN APPLICATIONS

HVAC
Building Automation
Cleanrooms
Agriculture
Humidifiers

TECHNICAL SPECIFICATIONS

TECHNICAL STECHTICATIONS	
Sensor	Interchangeable digital relative humidity and temperature sensor
Measuring range	0100 % RH / recommended 580 % RH -20+80 °C / -20+80 °C Td
Resolution	0.1 %RH / 0.1 °C / 0.1 °C Td
Accuracy	Typ. \pm 2.5 %RH (580 %RH) @ t = 1535 °C Typ. \pm 0.3 °C @ t = -2070 °C / \pm 0.5 °C @ t = remaining range
Long term drift	Typ. < 0.25 %RH/year Max. 0.03 °C/year
Response Time	10 s (63 % of final value with 1 m/s air flow)
Output (depending on the model)	 Active analog 020 or 420 mA or 010 Vdc 2-wire (current loop) 420 mA Digital RS485 Modbus-RTU SPDT Relay switch - 3 A/250 Vac - 3 A/30 Vdc resistive load RH: analog outputs are corresponding to a full
	scale of 0 to 100 % - Temperature: analog ouputs are user configurable, standard version -20+80 °C.
Alarm	Front red LED - measurement detected outside the measuring range (except relay versions)

• Current loop: 15...30 Vdc **Power Supply** • Modbus-RTU: 12...30 Vdc • Relay: 24 Vac ± 10% or 15...36 Vdc Active current: 20 mA @ 24 Vdc and I = 12 mA Power · Voltage: 4 mA @ 24 Vdc • Modbus-RTU: 2 mA @ 24 Vdc Consumption • Relay: < 1 W @ 24 Vdc Electrical Screw terminal block, max 1.5 mm², PG9 cable gland connections RS232 serial port - it can be connected to a USB port by using cable CP27 (except Modbus versions) Connection to PC Modbus versions: RS485 serial port - it can be connected to a USB port by using RS48 adapter Sensor operating -20...+80 °C * conditions The sensor is protected from water and dust Instrument operating -20...+60 °C / 0...95 %RH conditions Storage -20...+80 °C temperature **Dimensions** 80 x 84 x 44 mm (housing) IP65 Protection degree

• Active analog out.: 24 Vac ± 10% or 18...40 Vdc

*best performance between 20...80 % RH humidity range. Long term exposure outside this range, especially at high humidity, may temporarily offset the sensor response

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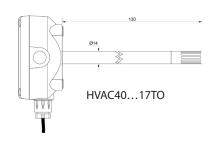
Blank = without LCD

TC.2 = Probe with 2 m cable

TO = Horizontal probe TV = Vertical probe

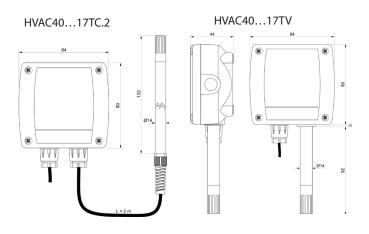
L = with LCD (standard on R versions)

AVAILABLE VERSIONS



For relay versions - front red LED + internal buzzer

for exceeding of the set measurement thresold



ORDERING CODES

HVAC40

Accessories	
CP27	USB connection cable
RS48	Cable with built-in USB/RS485 converter.
HD33	33%RH saturated solution
HD75	75%RH saturated solution
HD9008.31	Wall flange with cable gland to fix Ø 14 mm probes.
PG16	AISI304 cable gland for Ø 14 mm probes.
RS27	RS232 null-modem serial connection cable

A = 2-wire (current loop) 4...20 mA output

V = 0...10 V voltage analog output S = RS485 Modbus-RTU output R = ON/OFF relay switch

Blank = 0...20 mA / 4...20 mA active current analog output

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