

DriSteem Part Number: 405884-109

TRANSMITTER RH DUCT/HI LIMIT EURO 4-20mA

Manufacturer Part Number: THHDEZ2A-D

EuroSeries

Duct Humidity Transmitter 4-20mA

PRODUCT INSTALLATION DATA

General Specifications

Power supply (Class III)	15...35 VDC
Current consumption	DC power supply: typ. 5 mA
Connection	Screw terminals, max. 1.5 mm ²
Housing material	PC/ABS, UL94 V-0 appr.
Protection class	IP65 / NEMA 4 for enclosure; IP40 for sensing part (cap filter)
Cable gland	M16 x 1.5 / UL94-V0
Conduit fitting	M16 x 1/2" NPT / UL94 V-0
Sensor protection	PE filter, non-removable
EMC	EN61326-1, EN61326-2-3; FCC Part 15, Class B; ind. environment: ICES-003 Issue 5 Class B
Working conditions	-40...+70 °C (-40...+158 °F), 0...95% RH (non-condensing)
Storage conditions	-25...+60 °C (-13...+140 °F), 20...80% RH
Dimensions	See Fig 1.
Mounting	Duct
Approvals	CE / RoHS

Outputs

Analog output RH	4...20mA $\equiv$ 0...100%
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WIRING

wiring run	maximum length
sensor to controller	200 m (660 ft)

NOTE: Installation of the sensor near high EMI-emitting devices may lead to faulty measurements.

Use shielded wiring in areas with high EMI.

Keep 15 cm (6") min. distance between sensor lines and 230 Vac power lines.

Use two transformers: one for sensors and actuators and one for the controller.

GENERAL

The EuroSeries humidity duct transmitter provides a capacitance-type relative humidity sensor in an IP65/NEMA4X housing with 4...20mA fixed analog output.

The EuroSeries humidity duct transmitter is additionally equipped with a cable gland and 1/2" NPT conduit adapter.

These transmitters can be used:

- for checking and monitoring humidity in air duct applications (fresh air / exhaust);
- to avoid condensation in air duct applications;
- for humidification control.

FEATURES

- Wide sensing range
- Capacitance-type sensing element for rel. humidity

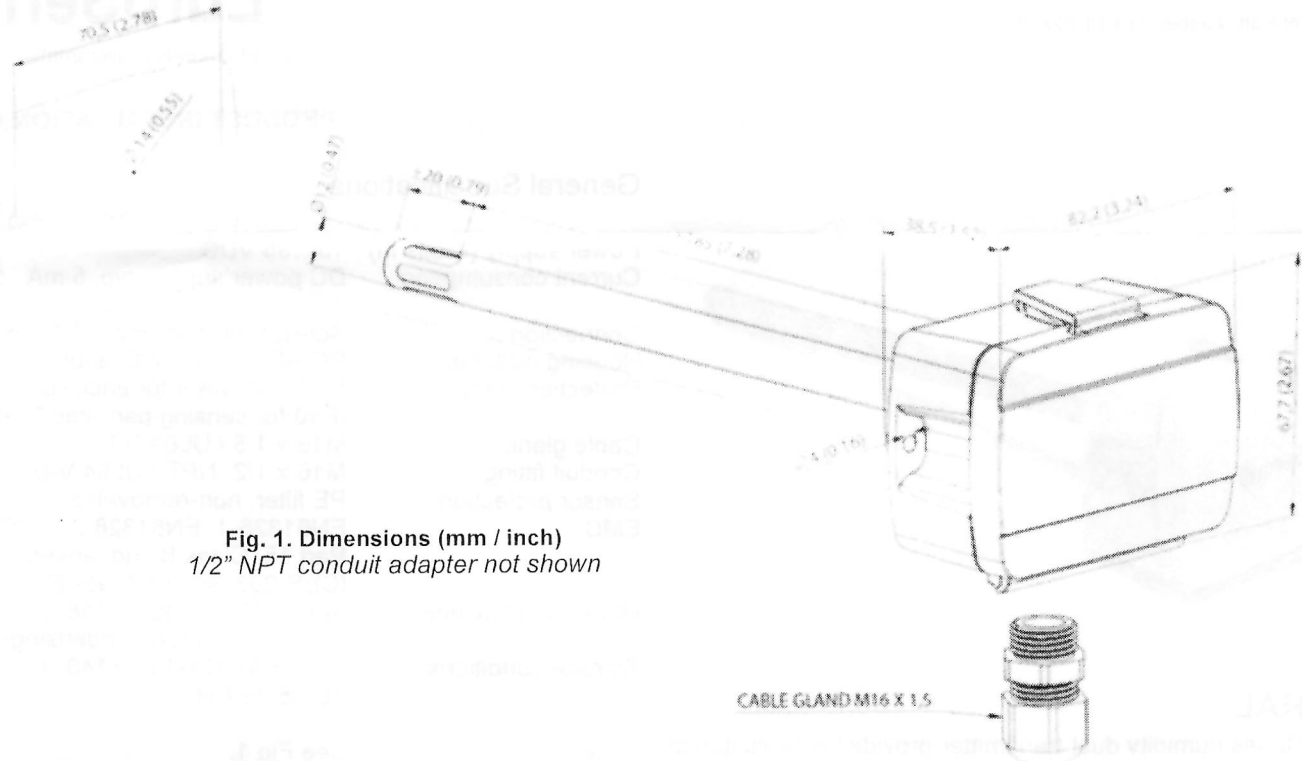
SPECIFICATION

Measured Values

Relative humidity (4...20mA)

Working range	10...90% %RH (non-condensing)
Accuracy (active sensor)	$\pm 2\%$ RH (30...70% RH) at 20 °C, otherwise $\pm 5\%$ RH
Temperature dependency	typically $\pm 0.05\%$ RH / °C
Typical response time	< 180 s

MOUNTING



TERMINAL ASSIGNMENT

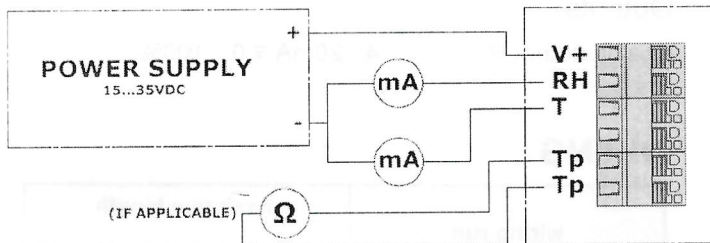


Fig. 2. Connection diagram, current output

ORDERING INFORMATION

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