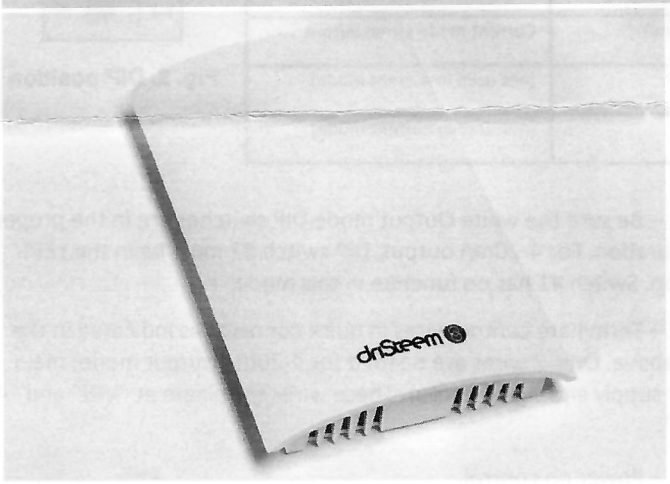
DriSteem Part Number: 405883-108
Description: TRANSMITTER RH ROOM AERO
Manufacturer Part Number: THHRAZ2A-D

AeroSeries

Wall Humidity Transmitter 4-20mA

PRODUCT INSTALLATION DATA



GENERAL

High quality room relative humidity sensor in an attractive low -profile plastic enclosure. Humidity elements have high accuracy and very low drift over 5 years.

The onboard DIP switches enable user to select proper relative humidity analog output signal in the field for 0-5V, 0-10V and 4-20mA, preset to 4-20mA.

The Quick Connect wire terminals make installation easy and eliminates screw terminals and wire nuts.

FEATURES

- **Wide sensing range**
- **Capacitance-type sensing element for rel. humidity**
- **High airflow and fast response**

SPECIFICATION

Measured Values

Relative humidity (4...20mA)

Working range	10…90% %RH (non-condensing)
Accuracy (active sensor)	±2%RH (10…90% RH) at 20 °C, otherwise ±5% RH
Temperature dependency	typically ±0.05% RH / °C
Typical response time	< 180 s
Long Term Stability:	<0.25% per year
Repeatability:	0.8% RH @ 25°C
Sensitivity:	0.1% RH

General Specifications

Supply Voltage (500 Ohm Load)	13 to 35 VDC
Supply Current	4-20mA
Connection	Spring-loaded terminals, max.1.5mm^2
Housing material	Injection-molded ABS UL 94 HB
Cover	Quick snap, injection-molded ABS
Mounting	Direct mounting with quick snap faceplate. Fits standard single gang box or mounts directly to wall. Built-in level for accurate installation.
EMC	EN61326-1, EN61326-2-3; FCC Part 15, Class B; ind. environment: ICES-003 Issue 5 Class B
Working conditions	0…50°C / 32...122°F 0…95% RH (non-condensing)
Storage conditions	-25…+60 °C (-13…+140 °F), 20…80% RH
Dimensions	See Fig 1.
Mounting	wall or space
Approvals	CE / RoHS

Outputs

Analog output RH	4...20mA ≡ 0…100%

WIRING

	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.

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DIMENSIONS

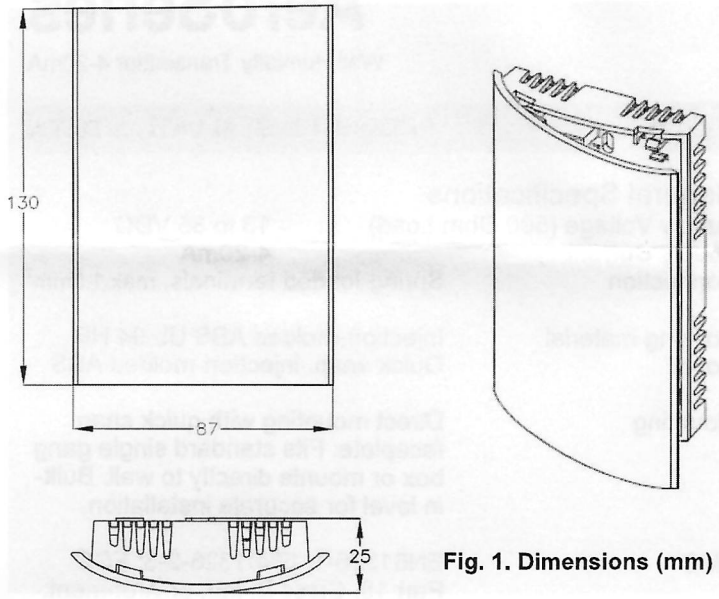


Fig. 1. Dimensions (mm)

CONFIGURATION

Terminal	Function
TEMP	N/A
VIN	Main power – DC only
4-20mA	Current mode signal output
COM	(not used in current mode)
VOUT	(not used in current mode)

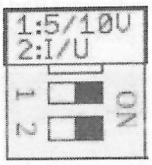


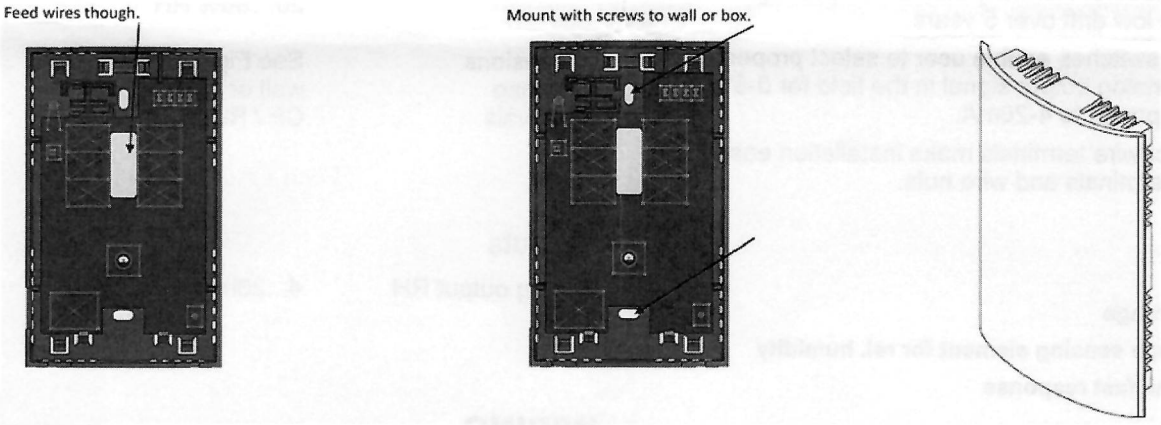
Fig. 2. DIP position

Step 1 – Be sure the white Output mode DIP switches are in the proper configuration. For 4-20mA output, DIP switch #2 must be in the LEFT position. Switch #1 has no function in this mode.

Step 2 – Terminate control wires in quick connects as indicated in the table above. Only 2 wires are needed for 4-20mA output mode; main power supply and signal output. These wires terminate at "VIN" and "4-20mA".

Step 3 – Power on control.

MOUNTING INSTRUCTIONS



Step 1 – Feed wires through hole in rear of sensor.

Step 2 - Mount with screws, then make connections.

Step 3 – Snap on cover. Depress hooks through vents with tool to remove.

Fig. 3. Mounting diagram

ORDERING INFORMATION

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