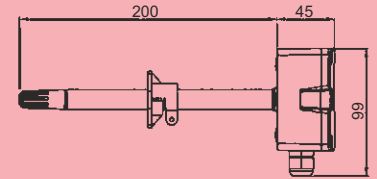
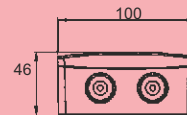
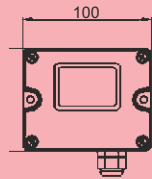
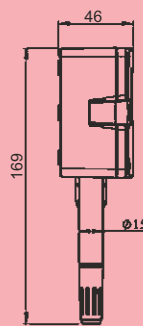
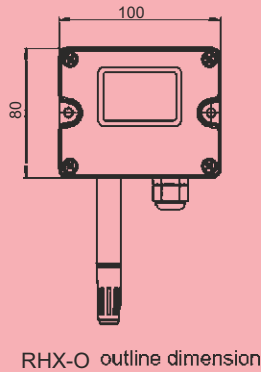




**AEROSENSE DUCT MOUNT HUMIDITY/TEMPERATURE TRANSMITTER**



RHX-D outline dimension

The Series RHX-D Duct Mounted Humidity & Temperature combination transmitters are highly accurate & stable sensors with 4-20mA / 0-10V with RS485 Communication for BMS.

**Features:**

- High precision sensor with good long term stability & anti-interference ability.
- The power supply & output have over voltage and reverse connection protection with high protection grade IP65
- The design is light with LCD backlight temperature & humidity dual display.

**Applications:**

- Air Economizers
- HVAC/building controls
- Energy management Systems

**Specifications**

**Relative Humidity**

**Range:** 0~100%RH

**Output:** see models

**Accuracy:** ±2%, ±3% @ 25°C & 20~80%RH

**Response time:** <10s (25°C, in slow air)

**Hysteresis:** <±1%RH

**Drift:** <±0.5%RH/year

**Temperature**

**Range:** Standard: 0~50°C

Optional: : -20~60°C

**Output:** see models

**Accuracy:** ≤±0.3°C @ 5~60°C

**Power: Current:** 18.5~35VDC (Rload=500Ω)

8.5~35VDC (Rload=0Ω)

Voltage/RS485: 15~35VDC/24VAC±20%

**Output Load:** ≤500Ω (current), ≥2KΩ (voltage)

**Sensor type:** Digital Polymer

**Display:** LCD display option with unit display and backlight

**Work Temp.:** -20~60°C, 0%-100%RH (non-condensing)

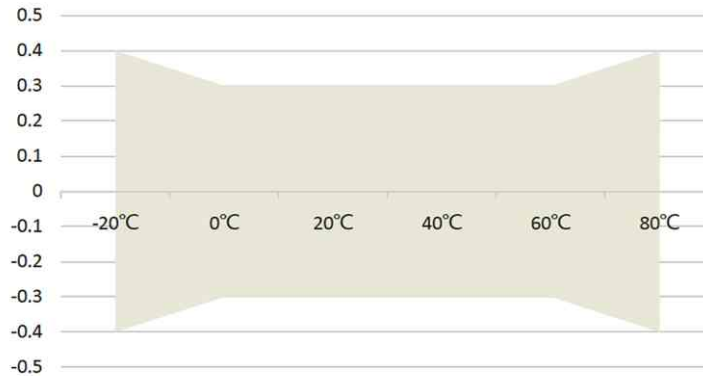
**Protection:** IP65

Model	RHX-D RHX-O		Duct Mount Temp/RH transmitter Wall Mount Temp/RH transmitter
RH Accuracy		H L	±2% RH (0.3°C) ±3% RH (0.4°C)
Output		V I C	0-10VDC (3 wires) 4-20mA (2 wires) RS485 on Modbus

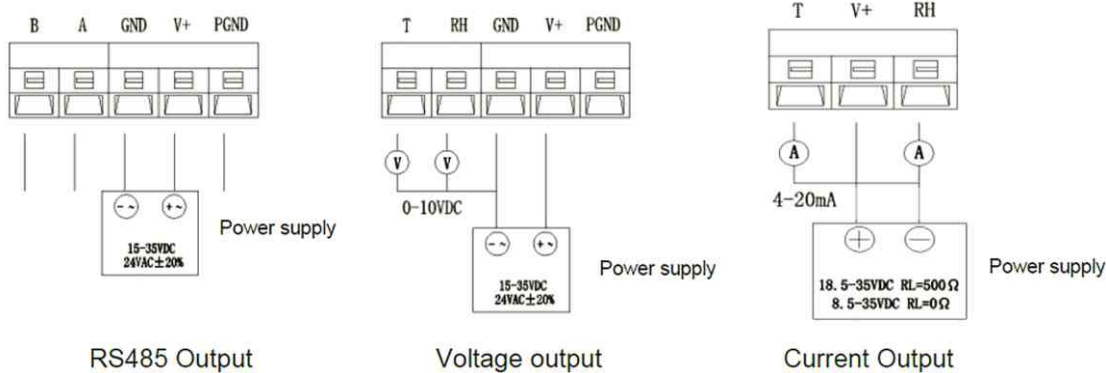
Add **-D** to the end of the model for display option.

## AEROSENSE DUCT MOUNT HUMIDITY/TEMPERATURE TRANSMITTER

Digital Sensor temperature accuracy curve

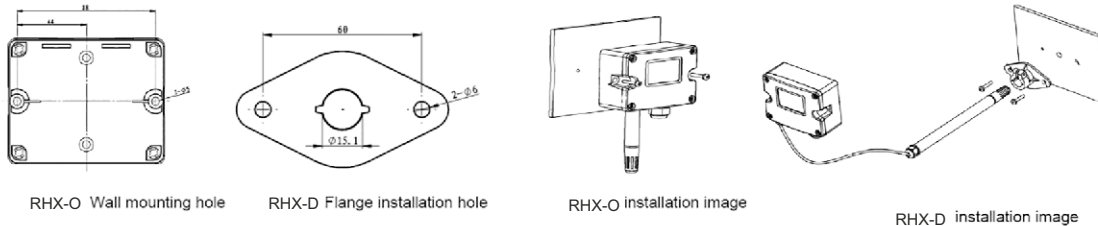


Wiring diagram



\*4-20mA models cannot be used only for Temperature measurement.

Installation:



- RHX-D is recommended to use flange attachment for installation, and the insertion depth can be adjusted. Use two screws to fix the mounting flange on the duct. The screws on the flange can lock the inserted probe. The air duct opening is  $\phi 15.1\text{mm}$ . After the probe is installed, the air duct should be sealed to avoid air leakage.
- RHX-O should be vertical when wall-mounted, and pay attention to the probe facing downwards. The installation location should be far away from factors that affect the measurement, such as cold and heat sources, and should be protected from direct sunlight or rain. If necessary, a sun visor or rain cover should be installed. Open 2 fixing holes on the installation plane according to the opening hole size of the installation drawing (see the above picture), and then fix the bottom box with 2 screws.
- Open the upper cover, connect the power line and signal line to the bottom box through the waterproof connector, complete the wiring according to the wiring diagram, and install the upper cover back to the original. Pay attention to the sealing between the waterproof connector and the bottom box (with a sealing ring), and the sealing between the upper cover and the bottom box (with a sealing ring), so that the overall protection level reaches IP65.