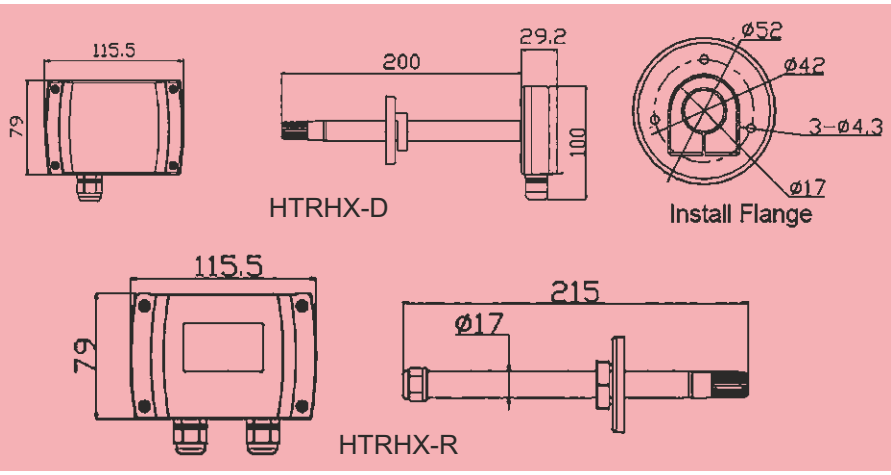
AEROSENSE™

Series HTRHX-D

HIGH TEMPERATURE DUCT MOUNT RH/TEMPERATURE TRANSMITTER



The Series HTRHX-D Humidity/Temperature transmitter are designed for use in environmental monitoring and control systems where high temperature and stability are demanded. High performance digital sensors & circuits ensure accurate measurement and temperature compensation.

Features:

- Good long term stability & reliability
- Fast response
- Digital technology applied, multiple outputs optional, over voltage and reverse polarity protection, high reliability and anti-interference capability

Model	HTRHX-D HTRHX-R			Duct Mount Temp/RH transmitter Remote 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.

Specifications

Relative Humidity

Range: 0~100%RH

Output: see models

Accuracy: 2%, 3%, (25°C, 20~80%RH)

Hysteresis: <±1%RH

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

Drift: <±0.5%RH / year

Temperature

Range: 0~100°C

Output: see models

Accuracy: ≤±0.4°C @ 5~60°C or 0.3°C @ 5~60°C

Power: Current: 18.5~35VDC (Rload=500Ω)
8.5~35VDC (Rload=0Ω)
Voltage: 16~28VAC/ 16~35VDC

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

Sensor: Digital Polymer

Display: 4 digits LCD, with unit indication, backlight.

MOC: Fireproof ABS housing, UHMW-PE filter, SS probe

Protection: IP65

Weight: HTRHX-D:360g; HTRHX-R:430g

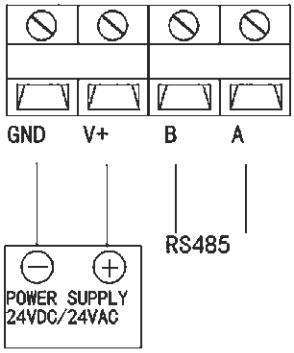
Approval: CE

HIGH TEMPERATURE DUCT MOUNT RH/TEMPERATURE TRANSMITTER

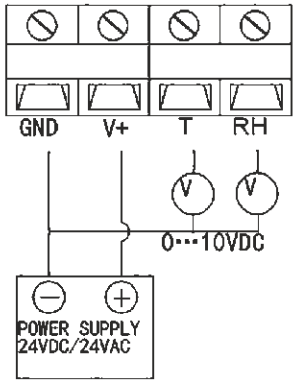
Connection:

Different models have different electrical terminals. Please wire specific model according to the wiring diagram inside the front cover.

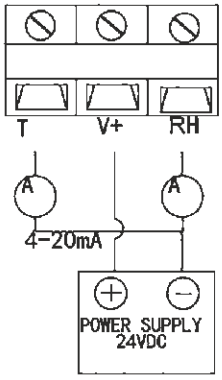
HTRHX-XC
- RS485Output



HTRHX-XV
- Voltage(0-10V)Output

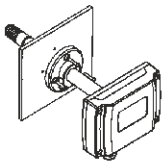


HTRHX-XI
- Current(4-20mA)Output

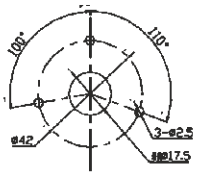


*4-20mA models cannot be used only for Temperature measurement.

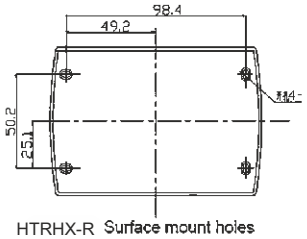
Installation:



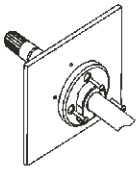
HTRHX-D Flange mount

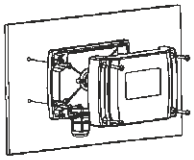


HTRHX-R Flange mount holes



HTRHX-R Surface mount holes





The install flange kit is recommended for installing the HTHRX-D. The depth being inserted can be adjusted. Install the kit on the duct with 3 screws, and use another screw to tighten the probe and the whole HTRHX-D. the duct hole (φ17.5mm) should be air-tight after installation.

- HTRHX-R housing should be installed vertically on the wall, with the sensor probe downward. It should be far away from any heat/cool sources. If needed, there should be a shield to prevent the sensor from direct sun light and rain.
  Drill 4 holes on the wall according to the dimensions. Install the HTRHX-R base with the 4 screws after remove the front cover. HTRHX-R remote probe can also be installed with flange kit, same as HTRHX-D
- Open the front cover, install the drain on the base and take the wires from DDC/PLC, etc. into the base through the drain, then finish wiring according to the diagram inside the cover and restore the front cover. Make sure to install the drain with the base and the base with the front cover all completely air-tight (there are two seal rings between the drain and the base, and the front cover and the base), to prove the whole housing can meet up to IP65.

Attention:

It should be power OFF during installing and wiring. When using 24VAC, it is strongly recommended to power the unit with independent transformer.

If sharing a 24VAC transformer with other equipments such as controllers, transmitters or actuators, please make sure the terminals 24V and GND are connected correctly. Otherwise, it will perhaps reduce serious damages.