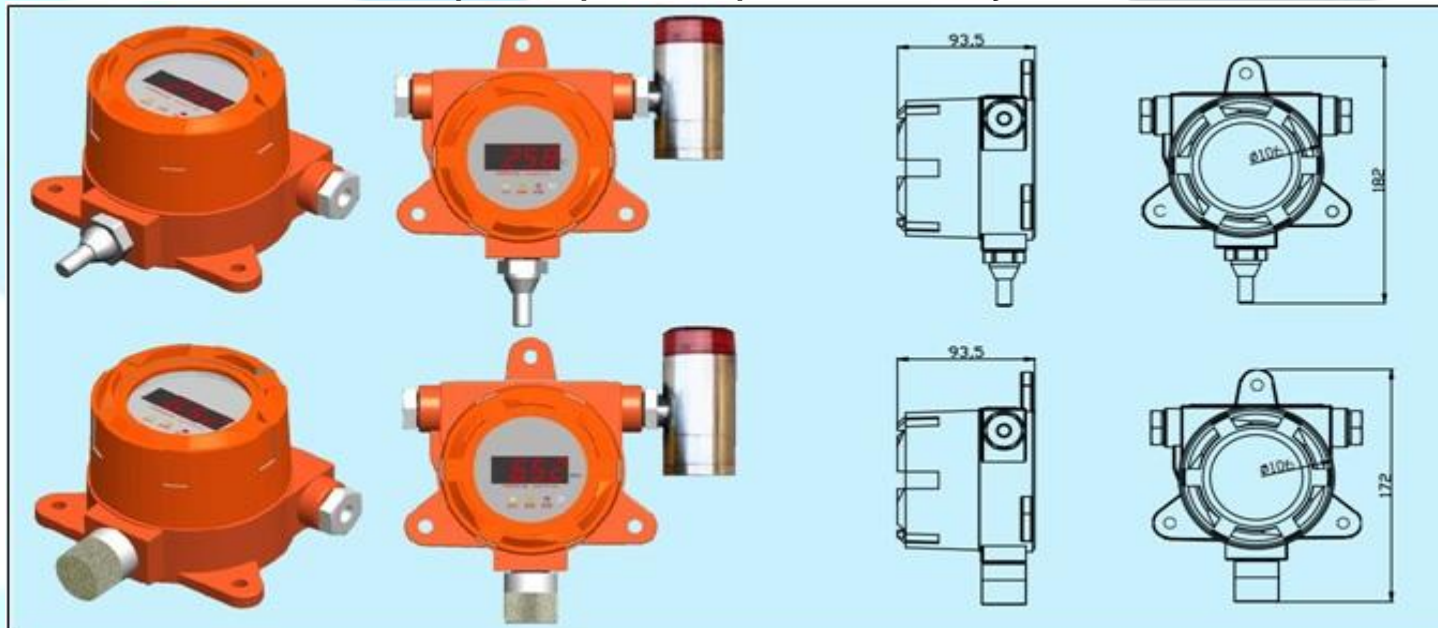


RSA-TT3EX / RSA-TTH3EX Explosion-proof Temperature/Humidity Transmitter



Applications & Features

- Designed for open air temperature and humidity measurement in harsh environment and combustible, explosive or toxic areas
- Industrial die cast aluminum explosion-proof housing, with the sensor module placed in a separated metal probe chamber, ensure electrically isolated from the housing
- Moisture and corrosion resistant, IP66 protection rate, can be used in various harsh and hazardous environments
- Professional high sensitivity temperature and humidity sensor, stable signal, high precision, wide measuring range and good linearity
- State of art housing, easy installation
- Modular sensor assembly, easy replacement and maintenance
- Made to meet Explosion Proof standards GB 3836.1-2010 and GB 3836.2-2010 with certificate Ex d IIC T6 Gb. Suitable for Zone 1 & 2 hazardous areas where there are explosive mixtures of IIA, IIB, IIC, T1-T6 combustible gas, vapor and air

Specifications

RSA-TT3EX Explosion proof Temperature Transmitter

Sensor: Digital temperature sensor

Range: See models

Accuracy: $\leq \pm 0.5^{\circ}\text{C}$ @ $0\sim 85^{\circ}\text{C}$

Repeatability: $\pm 0.1^{\circ}\text{C}$

Response: $< 5\sim 60\text{s}$

Drift: $< \pm 0.1^{\circ}\text{C}/\text{year}$

RSA-TTH3EX Explosion proof Temp. & Humidity Transmitter

Sensor: Digital polymer humidity & temperature sensor

Relative humidity

Range: $0\sim 100\%\text{RH}$

Accuracy: $3\% @ 25^{\circ}\text{C}$ & $20\sim 80\%\text{RH}$

Hysteresis: $< \pm 1\%\text{RH}$

Response time: $< 10\text{s}$ (25°C , in slow air)

Drift: $< \pm 0.5\%\text{RH}/\text{year}$

Temperature

Range: See models

Accuracy: $\leq \pm 0.5^{\circ}\text{C}$ @ $0\sim 50^{\circ}\text{C}$

Repeatability: $\pm 0.1^{\circ}\text{C}$

Response: $< 5\sim 60\text{s}$

Drift: $< \pm 0.1^{\circ}\text{C} / \text{year}$

Power: $18.5\sim 35\text{VDC}$

Output: $0\sim 10\text{V}$, $4\sim 20\text{mA}$ (3 wires), RS485/Modbus

Load: $\geq 2\text{k}\Omega$ ($0\sim 10\text{V}$), $\leq 500\Omega$ ($4\sim 20\text{mA}$)

Relay: SPST, $3\text{A}/30\text{VDC}$

Display: LED digital display, power/fault/alarm LED indicator

Alarm: audible & visual, $\geq 90\text{dB}$ @ 0.1m , $1800\sim 2400\text{mcd}$

Operating condition: $-30\sim 70^{\circ}\text{C}$, $5\sim 95\%\text{RH}$ (Non-cond.)

Housing: die cast aluminum housing, SS probe, SS sintered filter (RSA-TTH3EX)

Protection: IP66

Approval: Ex d IIC T6 Gb, EMC(2014/30/EU, EN50270)

Weight: $1.0\sim 1.2\text{kg}$

Models

Model	RSA-TT3EX				Ex-proof Temp. Transmitter
	RSA-TTH3EX				Ex-proof Temp. & Hum. Transmitter
Output		1 2 8			$0\sim 10\text{V}$ $4\sim 20\text{mA}$ (3 wires) RS485/Modbus
Temp. Range			1 2 3 7		$0\sim 50^{\circ}\text{C}$ $-10\sim 90^{\circ}\text{C}$ $-40\sim 60^{\circ}\text{C}$ Others
Relay Output				0 1	NA $1\times\text{SPST}$
Alarm				0 1	NA Audible & Visual Alarm