

HTX82/83 Series

Relative humidity and temperature transmitter for HVAC system, factory automation and chamber

FEATURES

- Excellent stability
- High accuracy ($\pm 2.0\%rh$, $\pm 0.4\text{ }^{\circ}C$)
- Wide measuring range (0~100%rh, -20~80°C)
- Waterproof housing
- Easy installation
- Excellent durability (Stainless probe)

APPLICATIONS

- HVAC System
- Dehumidifier / Chamber
- Humidifier / Dryer
- Cleanroom /
Constant temperature
& humidity unit (AHU)
- Building automation
- Industrial (Production / Storage)
- Semiconductor / LCD
- Pharmacy / Food
- Printing factory

HUMITRON® HTX82 series is industrial temperature and humidity transmitter which supplies user with fast response and high accuracy using thin film polymer capacity sensor and platinum RTD sensor.

- Application of airtight type bracket
- Metal Sintered filter

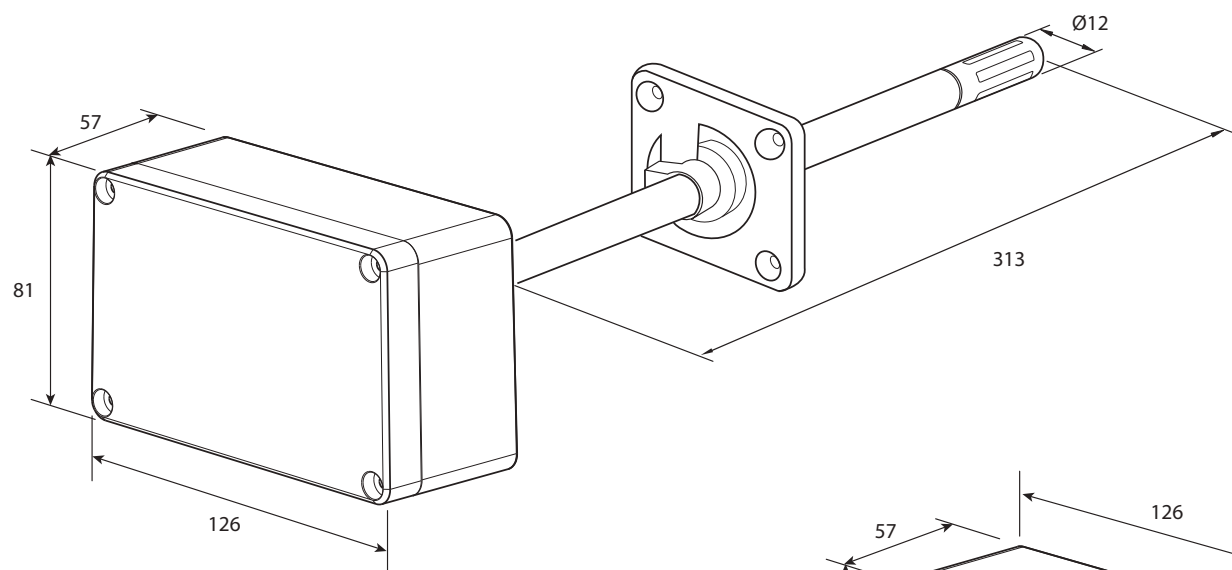


SPECIFICATIONS

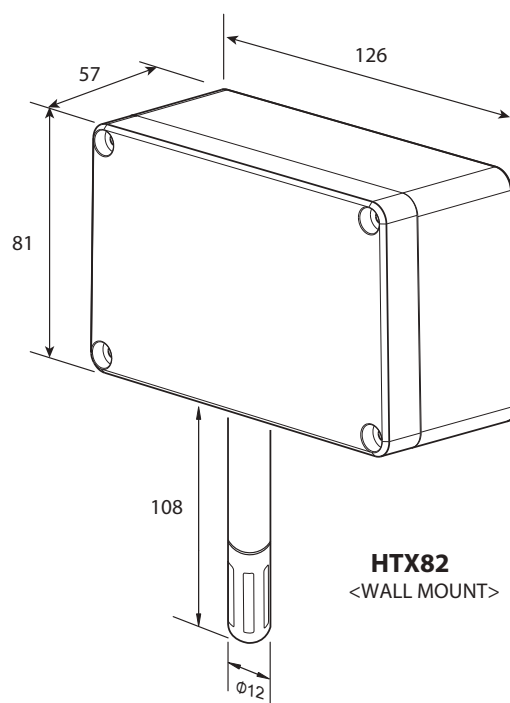
Item \ Model		HTX82(W/D)	HTX83(W/D)
Humidity	Measuring Range	0 ... 100 %rh (No Condensation)	
	Accuracy	$\pm 2.0\%rh$	$\pm 3.0\%rh$
	Linearity	$\pm 0.5\%rh$	
	Repeatability	$\pm 1.0\%rh$	
	Response	10 ... 90 %rh : less than 10 sec 90 ... 10 %rh : less than 15 sec	
	Output Signal	4 ... 20mAdc, 1 ... 5Vdc, 2 ... 10Vdc	
Temperature	Measuring Range	HTX82D-□□□L : -30 ... 70°C, HTX82D-□□□H : -20 ... 80°C	
	Accuracy	$\pm 0.4\text{ }^{\circ}C$	$\pm 0.8\text{ }^{\circ}C$
	Sensor Element	PT100Ω Class A	
	Output Signal	4 ... 20mAdc, 1 ... 5Vdc, 2 ... 10Vdc Pt100, Th 5K, Th 1K, Th 10K	
Sensor Protection		Stainless, Stainless+Maesh, Sintered alloy filter	
Power Supply		12Vdc or 24Vdc(6 ... 30Vdc)	
Dimension (W×H×Dmm)		120×80×60, Exclusion of Cable grand / filter (30)	
Cable Grand		PG9 (Bright Black, Anti-Drag, 4 ... 8.0mm)	
Wiring method		5-Pin Terminal, 14 ... 22AWG	
Housing		ABS, Water-proof	
Weight		Wall mount type : 220g, Duct mount type (250mm probe) : 333g	



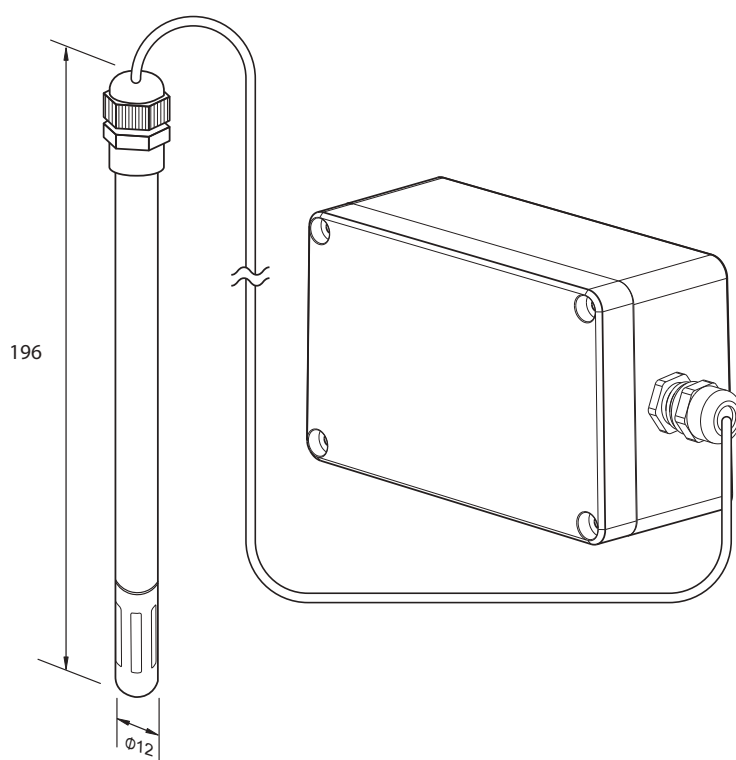
Housing Dimension(mm)



HTX82
<DUCT MOUNT>

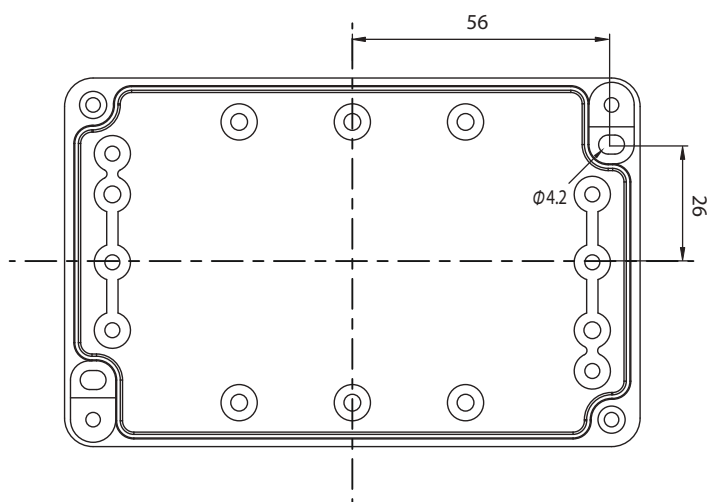


HTX82
<WALL MOUNT>

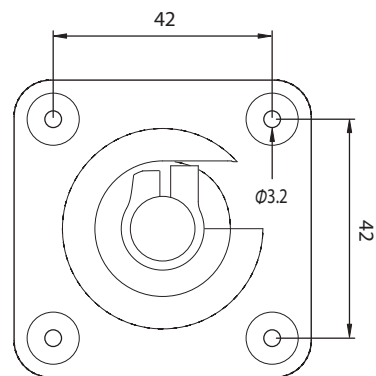


HTX82
<REMOTE MOUNT>

Mounting Dimension(mm)



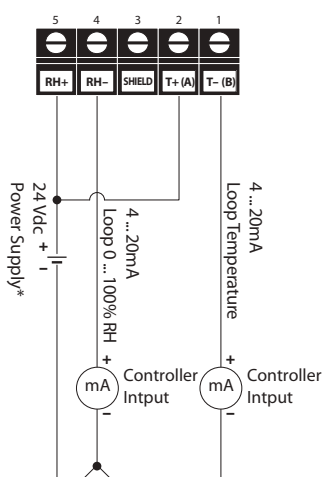
<Wall & Duct Mount>



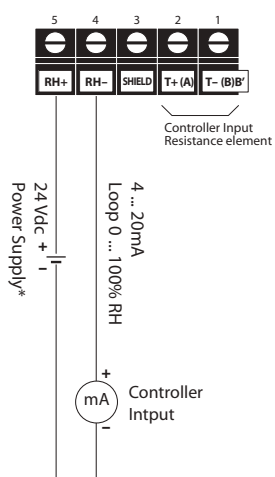
<Duct Mount Bracket>

Connection Diagram

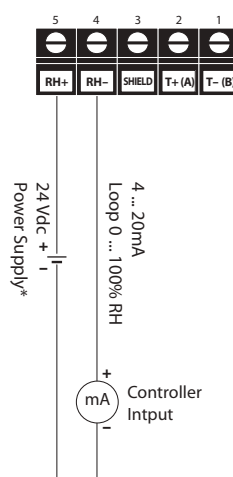
• HTX8n-FTC Type



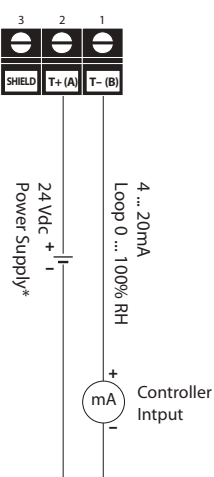
• HTX8n-FPC Type



• HTX8n-FHC Type



• HTX8n-FBC Type



Ordering Guide

Series	Accuracy	Mount	Type	Outout	Temp. Range	Passive Elements	Description
HTX	82						HUMITRON® HTX Series Transmitters
							RH : ±2.0%, Temp : ±0.4 °C
	83						RH : ±3.0%, Temp : ±0.8 °C
		W					Wall Mount
		D					Duct Mount
			FT				Humidity & Temperature
			FP				Humidity & Passive Elements
			FH				Humidity Only
			FB				Temperature Only
				C			Current Output 4 ... 20mAdc
				V			Voltage Output 2 ... 10Vdc
				V1			
				V5			Voltage Output 1 ... 5Vdc
					L		-30°C ... 70°C
					H		-20°C ... 80°C
					-		FP, FH series
						102	NTC Thermister 1KΩ
						502	NTC Thermister 5KΩ
						103	NTC Thermister 10KΩ
						PT100	PT 100Ω RTD
						PT1000	PT 1000Ω RTD
						-	FT, FH, FB series

Ordering Example

HTX82W-FTCL

- Model : Humidity & Temperature Transmitter
- Accuracy : RH : ±2.0%, Temp. : ±0.4
- Output : 4 ... 20mA (Humidity), 4 ... 20mA (Temperature)
- Housing : Wall mounting
- Temperature Range : -30 ... 70°C