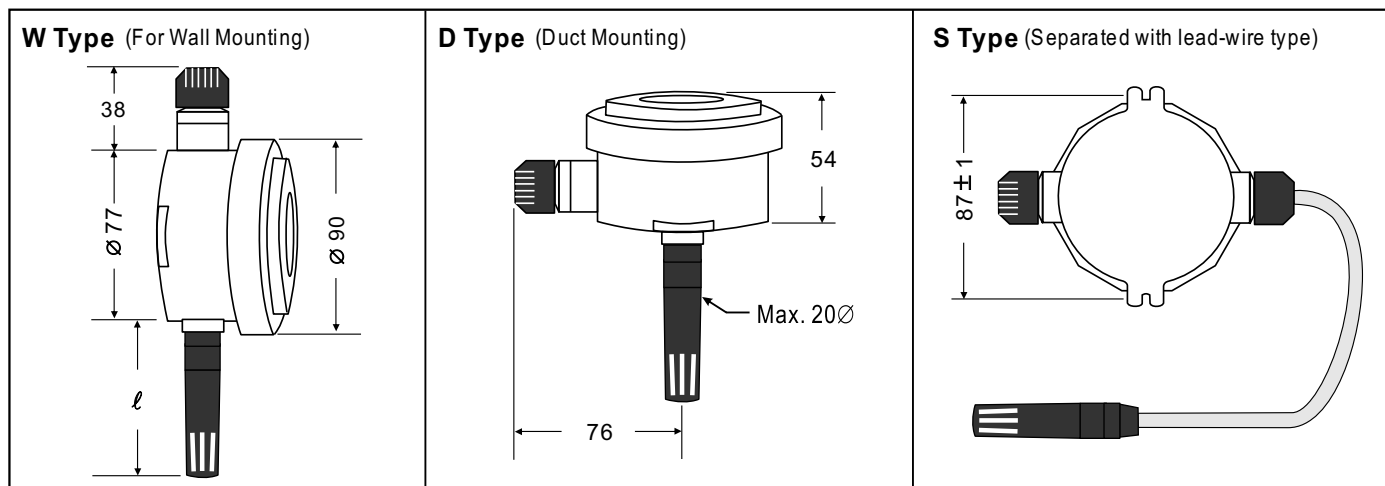TRH-300 series utilizes a thin-film polymer capacitor to sense relative humidity, and a thin-film RTD to accurately sense temperature. The sensing element's multilayer dust, dirt, oil and common environmental chemicals.

- ☑ Fast, Stable & Accurate
- ☑ Watertight enclosure
- ☑ Compact size, easy mounting
- ☑ Excellent long-term stability
- ☑ Wide input voltage range (12~40Vdc)
- ☑ Available with either current or voltage output
- ☑ On-site, Zero & Span calibration

Model No.		Description
TRH-301		Temperature Transmitter
TRH-302		Humidity Transmitter
TRH-303		Humidity & Temperature Transmitter
Mounting Type	**W**	By Wall Mounting
	D	By Duct Mounting
	S	Separated with lead-wire Type

Dimension: (mm)

W Type (For Wall Mounting)

38

$\varnothing$ 77

$\varnothing$ 90

ℓ

D Type (Duct Mounting)

54

Max. 20$\varnothing$

76

S Type (Separated with lead-wire type)
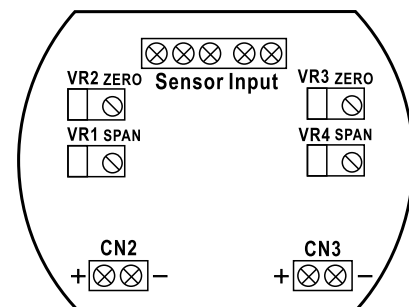
87 ± 1

* Used by 3-4mm or 1/8" Screw for mounting

SPECIFICATION

| Measurement Range | 0~100% RH |
	0~100°C (-20~+80°C, 0~50°C, -40~+60°C also is available)
Accuracy (At 25°C)	± 2% RH, 0.3°C
Longterm Stability	Better than 1% RH per year (Typical)
Temp. Compensation	± 0.008% RH/°C (Effect@0% RH)
Response	< 15 seconds (90% at +25°C in moving air at 0.5M/S)
Sensors	Humidity: Thin-film capacitor
	Temperature: RTD-Pt100W IEC751
Output	Humidity: 4~20mA (2-wire)
	Temperature: 4~20mA (2-wire), scalable
	*Option available for Input Signal output 0~1V, 0~5V, 0~10V or 1~5V
Supply Voltage	12~40V DC
Max. Pressure	2.0kg/cm^2
Housing	ABS plastic watertight enclosure (IP65)
Connections	Liquid-tight nylon, cable bushing: $\varnothing$ 5~10mm cables
Ambient Temperature	-40 ~ +85°C (-40 ~ +185°F)
Weight	Approx. 150g

CALIBRATION & WIRING

VR2 ZERO　Sensor Input　VR3 ZERO

VR1 SPAN　　　　VR4 SPAN

CN2　　　　CN3

+　　−　　+　　−

- **VR1):**　Span Adjustment for Humidity
- **VR2):**　Zero Adjustment for Humidity
- **VR3):**　Span Adjustment for Temperature
- **VR4):**　Zero Adjustment for Temperature
- **CN1):**　Sensor Input
- **CN2):**　Output Humidity
- **CN3):**　Output Temperature