THS13/14
Temperature & Humidity Transmitter for Wall type/ Duct type

| Features |

- Compact design, good look and easy to install
- An economical choice, high C/P ratio
- High-Tech sensor component with high accuracy and long-term stability

| Applications |

Monitoring for HVAC process / Air conditioning / Environmental ventilation control /
Environmental monitoring for building / Factory / Clean room / Lab. /
Monitoring for storeroom / Crisper / Agriculture / Food industry

Temp. & Humidity-THS13/14

| Specification |

Input

Input type	Capacitive humidity sensor & Pt1000

Measuring range

Temperature	0 ... 50°C, Suggestion : 15 ... 35°C
Humidity	0 ... 100 %RH(Non-condensing)
	Suggestion : 20 ... 80%RH

Accuracy (at 25°C)

Temperature	$0.3°C + 0.002°C \times t_{actual}$
Humidity	$\pm 3\%RH(30...80\%RH)$

Output

Output	4 ... 20 mA
Signal connection	2-wire
Warm-up time	＜2 min., stable time 20 mins.
Response time	t63(15 ... 45°C / 33 ... 75 % RH)≦10 sec.
	t90(at +25°C)＜20 sec.
Sampling time	about 3 sec.
Temperature influence	0.2%RH / °C
Load resistance	2-wire current :＜(V-10) / 0.02＜500 Ω
Output calibration(ZERO &SPAN) adjustment range	
	10% of zero-point and full-range

Environment

Medium	Air
Operating Temp.	0 ... +50°C
Storage Temp.	-25 ... +60°C

Electrical

Power supply	2-wire : DC 11 ... 35 V
Current consumption	2-wire : DC : 41 mA
Electrical connection	2-wire : 3P connection

Installation

Installation	Wall type / Duct type

Protection

IP Rating	IP54(Sensor : IP20)
Electric protection	■ Reverse polarity
	■ Over-voltage
	■ Short circuit

Certification

Certification	CE

Material

Housing	PC fire-proof class(PC-110)(UL94V-2)
Weight	THS13 : 132 g / THS14 : 157 g

| Diagram |

3P Connection

2-wire
4 ... 20 mA

Temp. & Humidity-THS13/14

| Dimension | Unit : mm

【THS13】

【THS14】

80 mm

80 mm

130.5 mm

Ø12 mm

M 1 2 x1 .5

38 mm

M12x1.5

23.9 mm

279 mm

243 mm

Ø12 mm
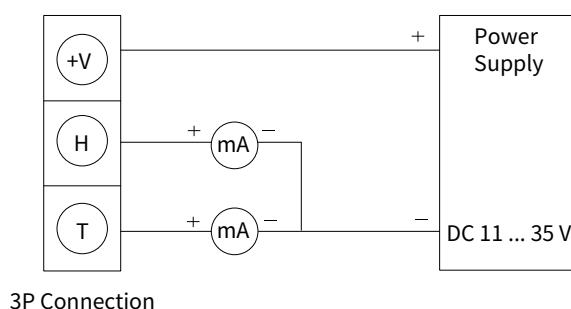
Ø62 mm
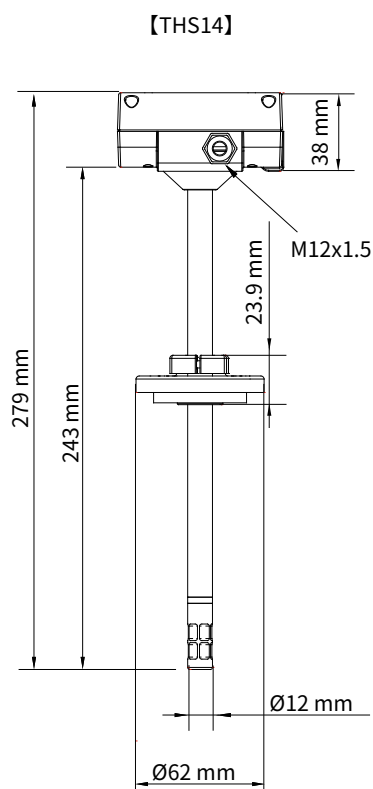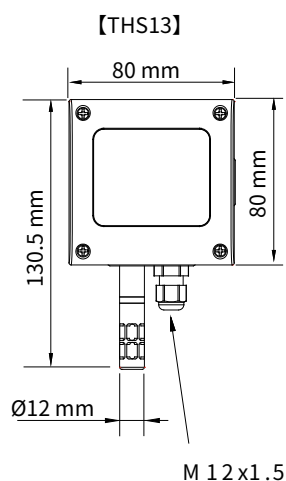
| Ordering Guide |

Product ordering number	Product Specifications
THS13-A11-30-N	Wall type, 0 ... 50°C/0 ... 100%RH, 4 ... 20 mA(2-wire), DC 11 ... 35 V
THS14-A11-30-N	Duct type, 0 ... 50°C/0 ... 100%RH, 4 ... 20 mA(2-wire), DC 11 ... 35 V

| Additional Option Test Report | For more detailed information please contact us.

■ILAC / TAF

YUDEN-TECH CO.,LTD. Calibration Laboratory - (ILAC / TAF) Test report.
(TAF accreditation : 3032, complying with ISO / IEC 17025) TAF has mutual recognition arrangement with ILAC MRA

Project	Measurand level or range
Hygrometer	Temperature : 0°C ... 69.5°C
	Humidity : 10% ... 95%

■ISO 9001

Project	Measurand level or range
RTD / Thermocouple	Resistance thermometer : -40°C ... +300°C
	Thermocouple thermometer : -20°C ... +300°C