



THS13/14

Temperature & Humidity Transmitter(Indoor / 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

## Specification

<b>Input</b>	
Input type	Capacitive humidity sensor & Pt1000 Ω
<b>Measuring Range</b>	
Temperature	0 ... 50°C
Humidity	0 ... 100%RH
<b>Output</b>	
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.
Sampling time	about 3 secs.
Temperature influence	0.2%RH / °C
Load resistance	2-wire current: $<(V-10) / 0.02 < 500 \Omega$
Output calibration (ZERO & SPAN) adjustment range	10% of zero-point and full-range
Response time	t90(at 25°C) < 20S
<b>Accuracy(at 25°C)</b>	
Temperature	$\pm 0.3^\circ\text{C} + 0.002^\circ\text{C} \times t_{\text{actual}}$
Humidity	$\pm 3\% \text{RH} (20 \dots 80\% \text{RH})$

## Environment

Medium	Air
Operating Temp.	0 ... +50°C
Storage Temp.	-25 ... +60°C
Restrictions:	Non-condensing must be less than 95%

## Electrical

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

## Installation

Installation	Indoor for wall type / Duct-mounting
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## Protection

IP Rating	IP54 (Sensor: IP20)
Electric protection	<input checked="" type="checkbox"/> Polarity protection <input checked="" type="checkbox"/> Over-voltage <input checked="" type="checkbox"/> Short circuit

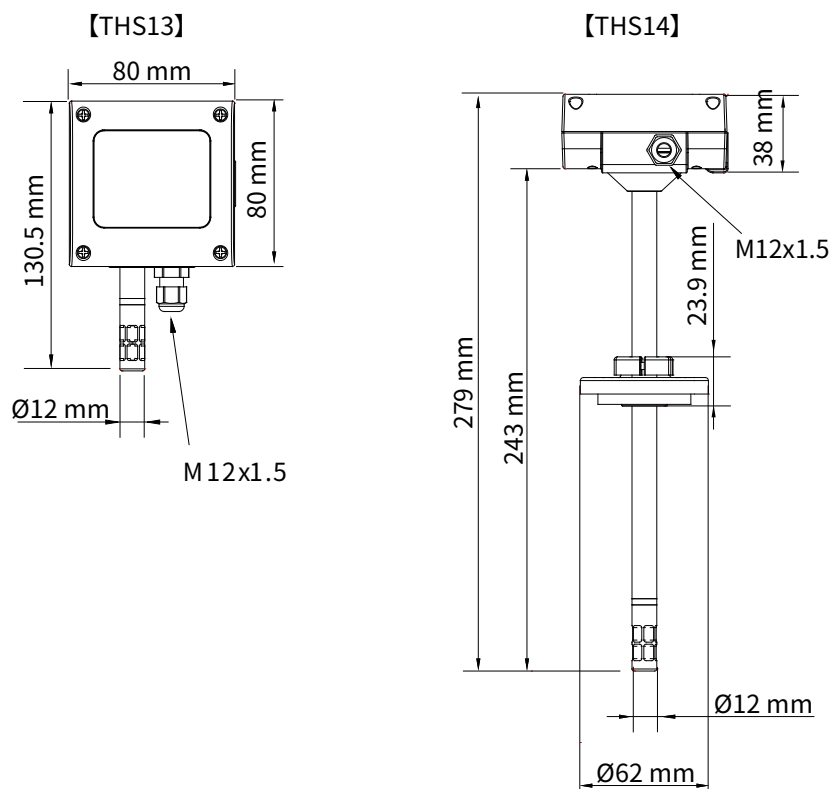
## Certification

CE Certification	EN 61326-1:2006 ~ EN 61326-2-2:2006
Emissions	EN55011:2009 / A1:2010
Immunity	IEC 61000-4-2:2008 IEC61000-4-3:2006 / A1:2007 / A2:2010 IEC 61000-4-8:2009

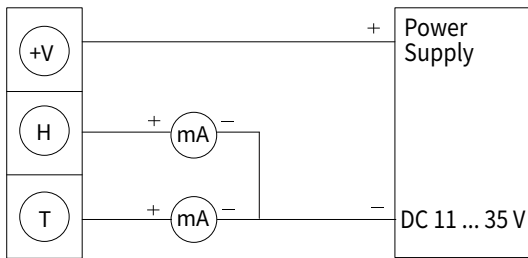
## Material

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

## Dimension



## Diagram Unit:mm



3P Connection

2-wire  
4-20mA

## Ordering Guide

Type	THS	14	—	A	1	1	—	30	—	N
Installation	Indoor Duct	13 14								
Function	Temperature & humidity output		—	A						
Output	4 ... 20 mA(2-wire)				1					
Power supply	DC 11 ... 35 V(2-wire)					1				
Measuring range	0 ... 50°C 0 ... 100%RH(Humidity output)						— —	30 00		
Option	None								—	N

## | Additional Option (ILAC/TAF) Test Report |

TAF Calibration Lab

Optional laboratory calibration report, please consult sales.

[More Information](#) > [Yuden-tech Official](#) > [Calibration Service](#)

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