



THS130/140

Temperature & Humidity Transmitter for Indoor / Duct type

Temperature & Humidity

www.eyc-tech.com



Feature

- Excellent long-term stable ability
- Cost-effective and accurate measurement
- Outstanding long-term performance
- Voltage or current outputs, optional passive temperature output

Application

Monitoring for HVAC process / Air conditioning / Environmental ventilation control / Environmental monitoring for building / Factory / Hospital / Storage rooms / Monitoring for building automation environment

Specification

Input

Sensor type	MEMS sensor
Passive T-sensor(3-wire)	Pt100 Class A ; Pt1000 Class A

Measuring Range

Temperature	0 ... 50°C
Humidity	0 ... 100%(Non-condensing)

Output

Output	4 ... 20 mA / 0 ... 10 V
Signal connection	3-wire
Warm-up time	<2 min ; Stable time 20 min
Response time	t63(15°C to 45°C / 33 to 75%RH) ≤ 10 sec
Sampling time	About 3 sec
Temperature influence	Max.-0.15%RH/°C(0°C ... 80°C)
Load resistance	Current < 250 Ω ; Voltage ≥ 10 KΩ

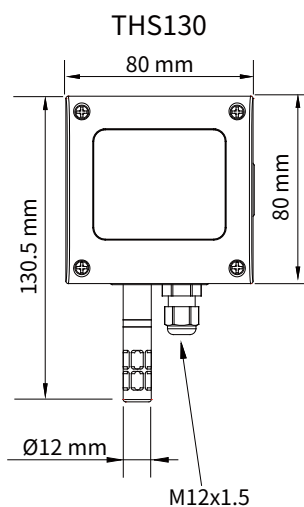
Accuracy(at 25°C)

Temperature	±0.5°C
Humidity	±5%RH(30 ... 80%RH)

Environment

Medium	Air
Operating Temp.	0 ... + 50°C
Operating Humid.	0 ... 100%RH(Non-condensing)
Storage Temp.	-20 ... +60°C

Dimension



Electrical

Power supply	DC 19 ... 35 V & AC 24 V ± 10%
Current consumption	DC : Max. 80 mA / AC : Max. 150 mA
Electrical connection	3-wire : 4P connector Passive T-sensor : 3P connector

Installation

Installation	Indoor : Wall mount ; Duct : Flange
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Protection

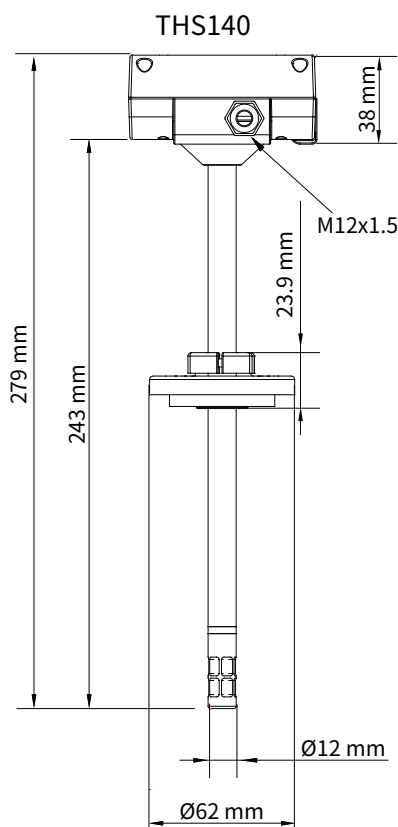
IP rating	IP54
Electrical protection	<ul style="list-style-type: none"> ■ Polarity protection ■ Over-voltage ■ Short circuit

Certification

Certification	CE
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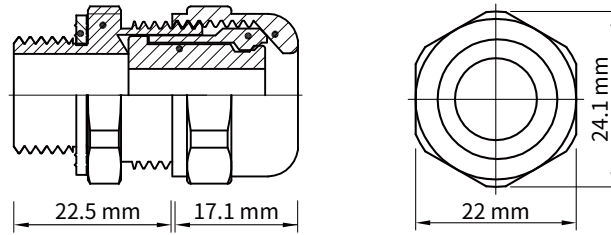
Material

Housing	PC(PC-110)(UL94V-2)
Weight	THS130 : 113 g ; THS140 : 135 g

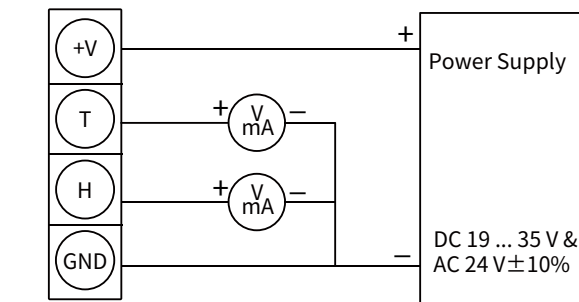


Electrical Connector

【N type(M16 cable gland)】 RS-485+analog

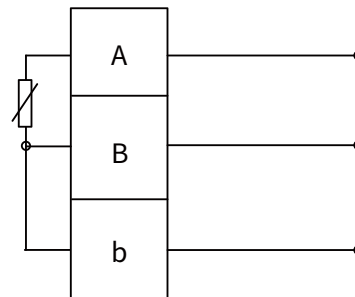


Diagram



4P Connection

3-wire / 4 ... 20 mA / 0 ... 10 V



3P Terminal

Passive T-sensor

Ordering Guide

Type	THS	140	-	A	6	3	-	30	XX	-	N
Installation	Indoor	130	-								
	Duct	140	-								
Function	Temperature & humidity output			A							
Output	4 ... 20 mA(3-wire)				3						
	0 ... 10 V(3-wire)				6						
Power supply	DC 19 ... 35 V & AC 24 V ± 10%					3					
Measuring range	0 ... 50 °C						-	30			
	Special range						-	YY			
Passive T-sensor	Pt100(Optional)								P2		
	Pt1000(Optional)								P3		
	None								XX		
Option	None									-	N

| Additional Option (ILAC / TAF) Test Report |



Additional option:(ILAC / TAF)Test report - Standard calibration laboratory(TAF accreditation:3032, complying with ISO / IEC 17025)
TAF has mutual recognition arrangement with ILAC MRA

Project	Measurand level or range
Hygrometer	3 basic points(25°C / 30%, 50%, 80%)
	Temperature:0°C ... 70°C
	Humidity:10% ... 95%