

THS17 Digital Temperature & Humidity Transmitter for Probe Type



Introduction

EYC THS17, digital Temperature & Humidity Transmitter, which is probe type to monitor temperature and humidity, provides plastic or metal case, and embeded MEMS sensor. That is why THS17 has nicer long-term stability of measuring, react quickly, easy to install and featured with compact size. THS17 provides free exclusive programmable software to monitor and record the data via RS-485, and switch the measured value to be other kinds of physical quantities such as dew-point, frost point, etc.

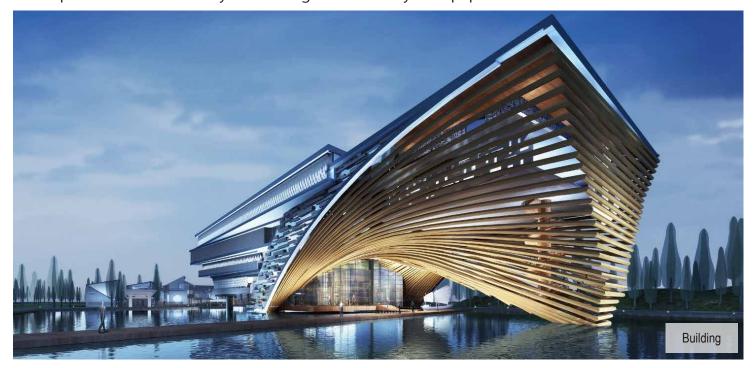
Feature

- [2-in-1] Real-Time data of temperature & humidity
- 【2-kind housing】 PC fire-proof class plastic and SUS304 metal housing
- [High C/P ratio] Economic price, high accuracy, nicer long-term stability
- [Nicer stability] MEMS sensor
- 【Sensor protected 】 Anti-condensation protection
- [Operate easy] Remote monitoring data via Modbus RS-485 digital output
- [Install quickly] Compact size and elegant outlook and easy to install
- 【 Data logger software and physical quantities switched 】 Free programmable software to monitor and record local data via RS-485, and switch the measured value to be other kinds of physical quantities such as dew-point, frost point, wet-bulb temperature, vapor pressure, mixture ratio, absolute humidity, and specific enthalpy.



Applications

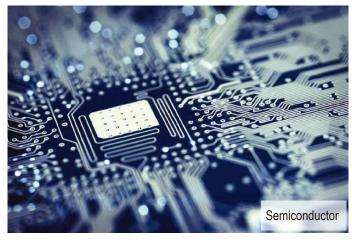
- Monitoring for HVAC process / Air conditioning / Environmental ventilation control
- Environmental monitoring for building / Factory / Clean room / Laboratory
- Monitoring for storeroom / Crisper / Agriculture / Food industry
- Temperature and humidity measuring in machinery or equipment













Specification

Input	
Temperature	MEMS
Humidity	MEMS
Measuring Range	
Extremely Working Range	0 100 °C ; 0 100 %RH
Output	
Signal Output	RS-485
Protocol	D ()
Interface	Modbus RTU
Response Time t63 (15 45 °C / 33 to 75 % R	H) ≦ 10 secs.
Sampling Time about 3 secs.	
Temperature Influence max 0.15 %RH/°C (0 100	
Accuracy (at + 25 °C) Temperature Humidity	± 0.3 ℃ ± 2 %RH (20 80 %RH)

Environment	
Media Measured	Ambient
Environment	0 60 °C / 0 100 %RH (non-cond.)
Working Environment	0 100 °C / 0 100 %RH (non-cond.)
Storage Temperature	-20 + 60 °C
Electric	
Power Supply	10 28 VDC
Current Consumption	8 mA
Electric Connection	PVC Cable 0.32 mm ² x 4C
Installation	
Installation	Flange (PVC / Metal)
Protection	
Protection Rating	IP 24 (Sensor); IP 65 (Housing)
Electric Protection	Polarity protection Over-voltage
	Short-circuit
Certification	
CE	Emission:
	EN 61326-1:2013
	CISPR11:2015 Group 1 Class B
	Immunity :
	EN 61326-1:2013
	IEC 61000-4-2:2008

Material	
Housing	Plastic : PC fire-proof class (PC-110)
	(UL94V-2); Metal: SUS304
Cable	PVC
Optional Accessory	PC radiation shield / Metal fitting
	Thread / Metal flange
Weight	
Plastic (with cable)	105 g
Metal (with cable)	146 g

IEC 61000-4-3:2006+A1:2007+A2:2010

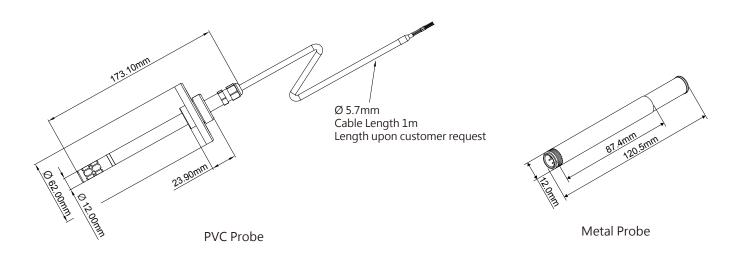
IEC 61000-4-8:2009



Ordering Guide

Item	THS	17	-	А	Р	1	-	00	00	-	2
Installation	Probe Type	17									
Function	Temperature / Humidity Output		-	Α							
Output	RS-485 (PC Probe) RS-485 (Metal Probe + M12 Connector)				P M						
Power Supply	10 28 VDC					1					
Temperature	0 100 °C						-	00			
Humidity	0 100 %RH								00		
Options	2m Cable				-					-	2

Dimension



Diagram

