

THS33/34/35

3-wire Temperature & Humidity Transmitter for Indoor / Duct / Remote Type



APPLICATIONS

Features

- Capable of temperature compensation and linear adjustment.
- High-Tech sensor with high accuracy and long-term stability.
- With compact design and reasonable price, easy to install, high C/P ratio.
- Option RS485

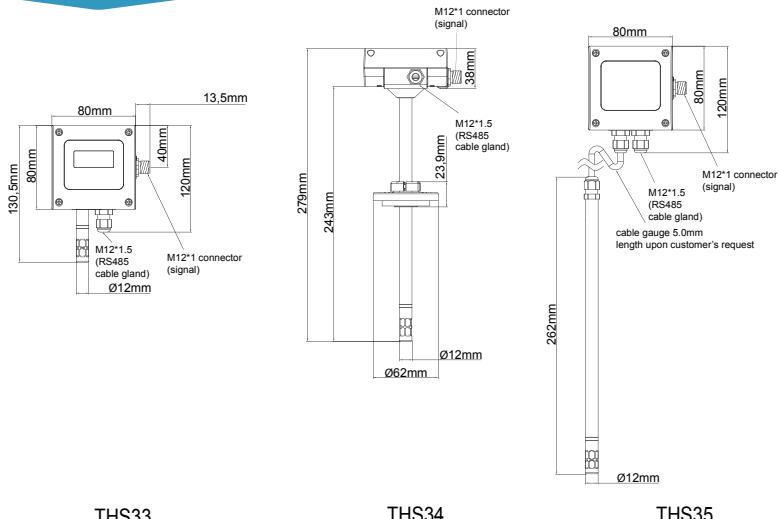
Applications

- Monitoring for storeroom / crisper / agriculture / food industry.
- Environmental monitoring for building / factory / clean room / Lab.
- Monitoring for HVAC process / air conditioning / environmental ventilation control.
- Temperature and humidity measuring in hospital / pharmaceutical industry / textile industry.



THS	33	-	A	1	1	-	30	00	-	M
Installation	Function		Output	Power Supply		Temperature Range		Humidity / Dew Range		Option
33 : indoor type 34 : duct-mounting 35 : remote type	A : temperature & humidity output D : dewpoint output		1 : 4~20mA 6 : 0~10V	1 : 8~35VDC & 12~30VAC		30 : 0~50°C 14 : -40~60°C 15 : -20~80°C		00 : 0~100% 13 : 20~40°C dp 14 : -40~60°C dp		5 : 5-meter cable (THS35) M : connector M12 (metal) N : cable gland D : LCD display S : SUS sintered filter P : RS485(programmable)

DIMENSION



TECHNICAL SHEET

Input

Input capacitive humidity sensor & PT 100Ω
Measuring range temperature: by requested range
humidity: 0~100%

Recommended working range

..... THS33 : temp. : 0~50°C ; humidity : 10~90%
..... THS34/THS35 : temp. : -40~80°C ; humidity : 15~90%
..... THS3X dew point : -40~60°C dp

Output

Output 4~20mA/0~10V
Signal Connection 3-wire
ModBus(option)

..... RS485(Physical parameters of outputs and range are programmable.)

Display type LCD Module with back light, double line character

Display range upon request, one decimal place

Height of character 5.56mm

Accuracy(at +25°C)

Temperature/Humidity ± 0.15°C+0.002 x tactual / ± 2%RH

Temperature Influence ± 0.05%RH/°C

Load resistance 4~20mA ≤ 500Ω / 0~10V ≥ 10KΩ

Output calibration (ZERO & SPAN)adjustment range software

Response time t90 (temperature+25°C) <20S

Environment

Media measured air

Working temp. for housing/probe 0~+50°C / -40~+80°C

Working humidity 0~95%(non-cond.)

Storage temperature -25~60°C

CE Certification EN 61326-1:2006 · EN 61326-2-2:2006

Emissions EN55011:2009/A1:2010

Immunity IEC 61000-4-2:2008

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

IEC 61000-4-8:2009

Power supply 8~35VDC/12~30VAC

Current consumption DC 24V: 60mA / DC 12V: 120mA

..... AC 24V: 140mA / AC 12V: 230mA

Electrical connection 4P connector/M12*1

Installation indoor : wall / duct : Flange / remote : Flange

Protection degree IP65(Probe:IP20)

Electric protection ■ Polarity protection ■ over-voltage ■ short circuit

Housing&Probe/Cable(THS35) PC fire-proof class(PC-110)/PVC

Option Radiation shield(THS34/35)/metal quick connector

Weight THS33:130g / 152g(display);THS34:141g / 163g(display)

..... THS35:183g / 205g(display)

CONNECTION DIAGRAM

