

THS74/75

Industrial high-temperature & humidity transmitter for dust/remote type



APPLICATIONS

Features

- Metal quick coupling, repeatable to install.
- Compact design, good look and easy to install
- Capable of temperature compensation and linear adjustment.
- Capable of high anti-pressure, sensor with high accuracy and longterm stability.
- Option RS485

Applications

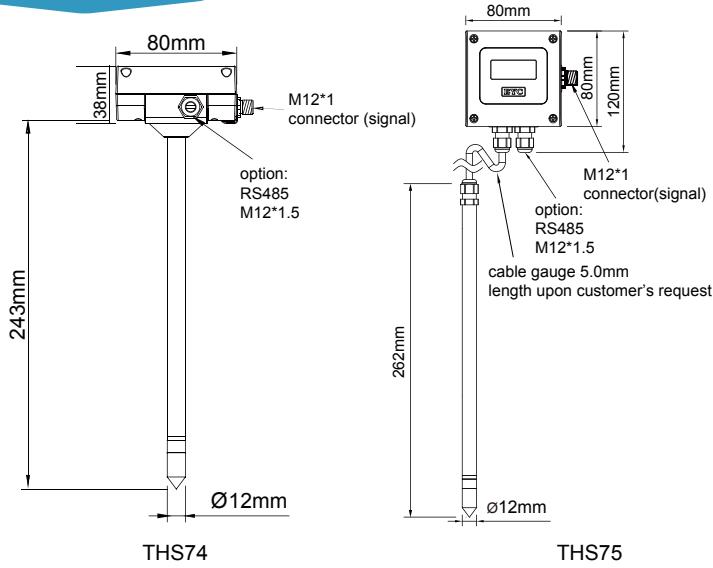
- Monitoring for industrial process / air conditioning / environmental ventilation control.
- Environmental monitoring for building / factory / clean room / Lab / weather station.
- Monitoring for storage room / freezer / agriculture / food industry.
- Temperature and humidity measuring in hospital / pharmaceutical industry / textile industry.



THS 75 - A 1 1 - 48 00 - M

Installation	Function	Output	Power Supply	Temperature Range	Humidity / Dewpoint Range	Option
74 : duct-mounting 75 : remote type	A : temperature & humidity output D : dew point output	1 : 4-20mA 6 : 0-10V	1 : 8~35 VDC & 12~30 VAC	14 : -40~60°C 16 : -40~120°C 18 : -40~180°C 42 : 0~120°C 48 : 0~180°C	00 : 0~100% 13 : -20~40°C dp 14 : -40~60°C dp	5 : 5 meters cable (THS75) M : M12*1 N : cable gland D : display P : RS485 (programable)

DIMENSION



TECHNICAL SHEET

Input

Input capacitive humidity sensor & PT 100Ω
Measuring range temp. : by requested range / humidity : 0~100%
Working range temperature: -40~180°C ; humidity: 0~100%
dew point: -40~60°C

Output

Output/Signal Connection 4~20mA/0~10V/3-wire
ModBus RS485(programmable)

Linear accuracy (at +25°C) temp. : $\pm 0.15+0.002^{\circ}\text{C} \times \text{t}_{\text{actual}}$
humidity: $\pm 2\%$

Temperature Influence $\pm 0.05\%$ RH/ $^{\circ}\text{C}$

Load resistance 4~20mA $\leq 500\Omega$ / 0~10V $\geq 10\Omega$

Output calibration (ZERO & SPAN)adjustment range : software setting

Response time t90 (temperature+25°C) <30s (SUS sintered filter)

Display type LCD Module with back light, double line character

Display range upon request, one decimal place

Height of character 5.56mm

Environment

Media measured air

Working temperature for housing -20~+50°C

Working humidity for housing 0~100%(non-cond.)

Working temperature for LCD housing 0~50°C

Working temperature of probe ... THS74: -40~80°C / THS75: -40~180°C

Storage temperature -25~+60°C

Bearable pressure for probe 10bar

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

Electronic Regulation

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

Protection degree housing:IP65(Probe:IP20)

Electri c p rotection ■Polarity protection ■over-voltage ■short circuit

Housing/Probe PC fire-proof class (PC-110) / Stainless steel (SUS304)

Cable Teflon

Option Plastic Flange/Metal Flange/Radiation shield/metal filter

Installation by 1/2 PT outside thread

Weight THS74:415g / 442g(display) ; THS75:439g / 466g(display)

CONNECTION DIAGRAM

