

## Main Specifications

## ▼ Installation type

WM-Wall mount  
D-Duct  
R-Remote reading  
OD-Outdoor

## ▼ LED Display

3-digit 0.4" 7segment LED  
Forward / Reverse view direction  
Display mode:  
OUT1 stable / OUT2 flash 3 times

## ▼ Output

4-20mA (2-wire)  
0~1V / 5V /10V (3-wire)  
RS485 (Digital)

## ▼ Electrical connection

Cable gland with terminal block  
M12-4pin with 2M cable

## ▼ Body dimension

58 x 64mm

## ▼ Humidity measurement range

0...100% RH

## ▼ Temp measurement range

-40...120°C

## ▼ Temp scale

0...50°C / 0...100°C / By order

## ▼ Probe

Material:

Wall mount type▼

ABS

Remote type▼

Nickel coated copper

Duct & outdoor type▼

Aluminum alloy

Pressure resistance: 10 bar

Outer diameter: Ø16mm

Length: Please refer to  
installation diagram

## ▼ Body operating temperature

-25...80°C (-13...176°F)

## ▼ Case protection level

IP65

▼ Electromagnetic interference  
protection

Comply with EMC standard

EN61326-1

Industrial environment

## Other Specifications

## ▼ Housing material

PC (Polycarbonate)

## ▼ Humidity accuracy

(including non-linearity,  
hysteresis and repeatability)

Standard:

±3%RH (20...80%RH @25°C)

Option:

±2%RH (20...80%RH @25°C)

±1.5%RH (20...80%RH @25°C)

## ▼ Temperature accuracy

(including non-linearity,  
hysteresis and repeatability)

±0.7°C (@-40...5°C)

±0.3°C (@5...60°C)

±0.9°C (@60...120°C)

## ▼ Stability

Humidity: <0.25%RH/year

Temperature: <0.02°C/year

## ▼ Response time

Humidity: 5 secs (33-75%RH)

Temperature: 10secs

(15 to 45°C)

## ▼ Power supply

15...35VDC

12...29VAC

## ▼ Power consumption

(@20°C, V+24VDC)

Current output: max. 50mA

Voltage output: avg. 15mA

## ▼ Load resistance

Current output: < 500Ω

Voltage output (0~1V): > 2KΩ

Voltage output:(0~5V / 10V):

> 10KΩ

## ▼ Cable (remote type)

Cable bushing PG9: 4.5...8.2mm

Material: shield PVC

Length: 2M (standard)

Other length available upon  
request

## Economic Humidity and Temperature Transmitter (LED Display Type)

### Model: THT-S-D-ECO Series Introduction

THT-S-D-ECO series humidity and temperature transmitter has 4 installation types (wall mount, duct, remote and outdoor) for selection to adapt various environment. With LED module, it can field display the measured value without any visual error.



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

## Features

- Four installation types fit various environment: wall mount, duct, remote and outdoor
- LED module features field clear display
- Temperature range -40~120°C, humidity range 0~100%RH
- Max. accuracy can up to  $\pm 1.5\%$ RH
- Heat-resistance, pressure resistance, mechanical stress resistance probe
- Case protection level IP65 can avoid environmental contamination and prevent condensation generated
- Various current/voltage output for selection
- Zero offset calibration
- Configure adaptor can set measuring type, scale, output type, alarm point, and RS485 parameters without using a computer (option)

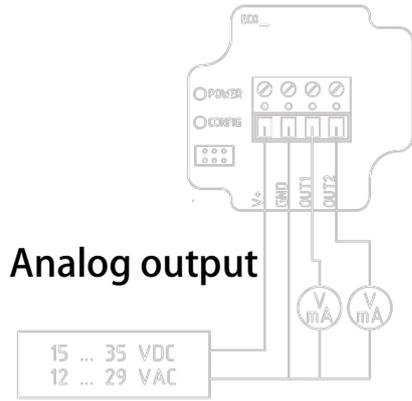


THT-S-D-ECO-R  
Remote type

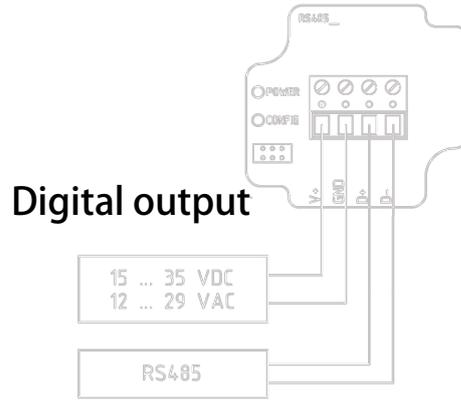


THT-S-D-ECO-OD  
Outdoor type

Wiring diagrams (Cable gland with terminal block)

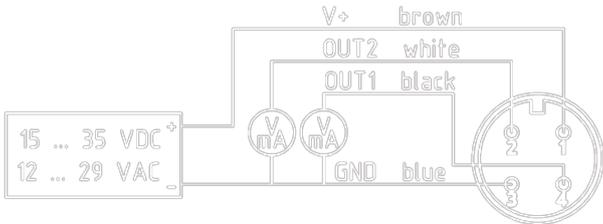


Analog output

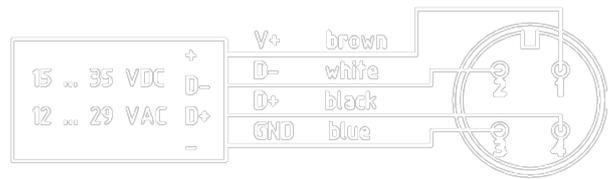


Digital output

Wiring diagrams (M12-4pin)



Analog output



Digital output

## How to order

THT-S-D-ECO		Economic Humidity and Temperature Transmitter					
Code	Installation type						
WM	Wall mount						
D	Duct						
R	Remote probe						
OD	Outdoor						
Code	Electrical connection						
A	Cable gland with terminal block						
B	M12-4pin with 2M cable						
Code	LED display direction						
F	Forward						
R	Reverse						
Code	Output signal						
2A	4-20mA						
3V1	0~1V						
3V2	0~5V						
3V3	0~10V						
D	RS485 digital output						
Code	Humidity accuracy						
A	± 1.5%RH (20...80%RH @25°C)						
B	± 2%RH (20...80%RH @25°C)						
C	± 3%RH (20...80%RH @25°C)						
Code	Temperature scale						
1	0...50°C						
2	0...100°C						
S	By order						
X	No						
Code	Other requests						
/A	Third party notarized documents						
/B	Inspection report (issued by Re-Atlantis)						
/C	Tag						
/D	Specify other cable length						
/E	Sintered stainless steel, pores size 30 μm						
/F	Sintered stainless steel, pores size 75 μm						
/G	Wall mounting clip						
/H	1/2" NPT stainless steel sample block with 1/4" NPT inlet & outlet ports						
/I	1/2" NPT stainless steel fitting						
/J	Configure adapter						
THT-S-D-ECO	WM	A	F	2A	C	2	Example: THT-S-D-ECO-WM-A-F-2A-C-2