Economic Humidity and Temperature Transmitter Model: THT-S-ECO Series

Introduction

THT-S-ECO series humidity and temperature transmitter has 4 installation types (wall mount, duct, remote and outdoor) for selection to adapt various environments.

Main Specifications	Other Specifications
▼Installation type WM-Wall mount D-Duct R-Remote reading OD-Outdoor	▼Housing material PC (Polycarbonate)
▼Output 4-20mA (2-wire) 0~1V / 5V /10V (3-wire) RS485 (Digital)	▼Humidity accuracy (including non-linearity, hysteresis and repeatability) Standard: ±3%RH (20...80%RH @25℃) Option: ±2%RH (20...80%RH @25℃) ±1.5%RH (20...80%RH @25℃)
▼Electrical connection Cable gland with terminal block M12-4pin with 2M cable	▼Temperature accuracy (including non-linearity, hysteresis and repeatability) ±0.7℃ (@-40...5℃) ±0.3℃ (@5...60℃) ±0.9℃ (@60...120℃)
▼Body dimension 58 x 64mm	▼Stability Humidity: <0.25%RH/year Temperature: <0.02℃/year
▼Humidity measurement range 0...100% RH	▼Response time Humidity: 5 secs (33-75%RH) Temperature: 10secs (15 to 45℃)
▼Temp measurement range -40...120℃	
▼Temp scale 0...50℃ / 0...100℃ / By order	▼Power supply 15...35VDC 12....29VAC
▼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	▼Power consumption (@20℃, 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
▼Body operating temperature -25...80℃ (-13...176℉)	▼Cable (remote type) Cable bushing PG9: 4.5...8.2mm Material: shield PVC Length: 2M (standard) Other length available upon request
▼Case protection level IP65	
▼Electromagnetic interference protection Comply with EMC standard EN61326-1 Industrial environment	

THT-S-ECO-WM Wall mount type

THT-S-ECO-D Duct type

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℃, humidity range 0~100%RH
- ■ Max. accuracy can up to ±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)
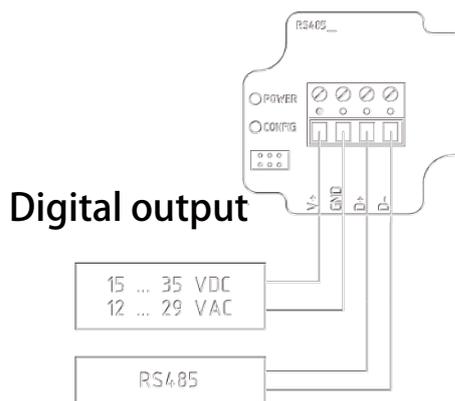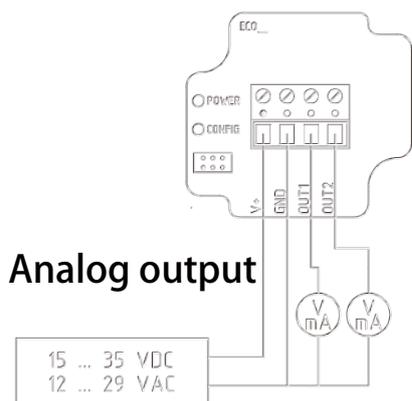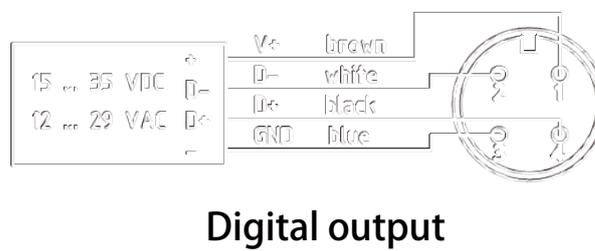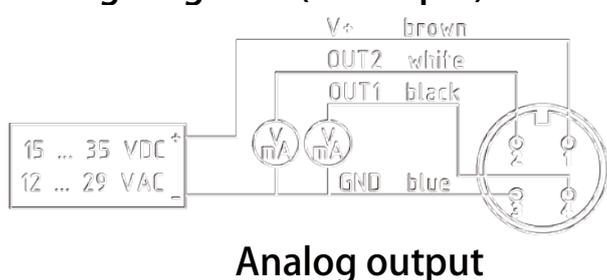

THT-S-ECO-R
Remote reading type

THT-S-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-ECO Series		Economic Humidity and Temperature Transmitter						
Std.	Spec.	Code	Item	Code	Item	Code	Item	Code	Item
WM	Installation type	WM	Wall mount	D	Duct	R	Remote reading	OD	Outdoor
A	Electrical connection	A	Cable gland with terminal block	B	M12-4pin with 2M cable	–	–	–	–
mA	Output signal	mA	4-20mA	1V	0~1V	5V	0~5V	10V	0~10V
		485	RS485 digital output	–	–	–	–	–	–
2	Humidity accuracy	1.5	±1.5%RH	2	±2%RH	3	±3%RH	–	–
50	Temperature scale	50	0···50℃	100	0···100℃	X	No	O	By order

/B	Other requests	/A	Third party notarized document
		/B	Inspection report (issued by Re-Atlantis)
		/C	Tag
		/D	Specify other cable length
		/E	Sintered stainless steel, pores size 30μm
		/F	Sintered stainless steel, pores size 75μm
		/G	Wall mounting clip
		/H	1/2″ NPT stainless steel sample block with1/4″ NPT inlet & outlet ports
		/I	1/2″ NPT stainless steel fitting
		/J	Configure adapter

Order example: THT-S-ECO - WM - A - mA - 2 - 50 - /B