

Main Specifications

▼ Installation type
WM-Wall mount
D-Duct
R-Remote reading

▼ Body dimension
115 x 65mm

▼ Humidity measurement range
0...100% RH

▼ Temp. measurement range
-40...120°C
Adjust temperature range through dip switch (RS485 type is not adjustable)

▼ Probe
Material:
Wall mount and remote type ▼
Nickel coated copper
Duct type ▼
Aluminum alloy
Pressure resistance: 10 bar
Outer diameter: Ø16mm
Length: for details please contact with our sales

▼ Body operating temperature
-40...80°C (-40...176°F)

▼ Protection level
Case: IP65
Probe: IP20

▼ Electromagnetic interference protection
Comply with EMC standard EN61326-1
Industrial environment

▼ Optional accessory
Sintered stainless steel 70u
Sintered stainless steel 30u
Aluminum flange
Stainless steel screwed fitting
Wall mounting clip
Configure adapter

Other Specifications

▼ Housing material
PC (Polycarbonate)

▼ Analog output
4-20mA (2-wire)
0~1V / 5V / 10V (3-wire)

▼ Digital output (option)
MODBUS RTU RS485

▼ Alarm output (option)
Relay type: Electromagnetic
Contact type: SPDT
Contact capacity: 8A, 277VAC (resistive load)

▼ Humidity accuracy (Including non-linearity, hysteresis, and repeatability)
±3%RH (0...20/80...100%RH)
±2%RH (20...80%RH)

▼ 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: 0.5%RH/year
Temperature: 0.04°C/year

▼ Response time
Humidity: 5 secs (33-75%RH)
Temperature: 10 secs (15 to 45°C)

▼ Power supply
Current output:
11...35VDC, Load <50Ω
20...35VDC, Load <500Ω
Voltage output:
15...35VDC, 12...29VAC
RS485 Output:
15...35VDC, 12...29VAC

▼ Power consumption (@20°C, V+24VDC)
2A-40mA
3V-10mA,
3V+alarm-25mA
RS485-25mA
RS485 alarm-40mA

▼ Cable (remote type)
Cable bushing PG9:
4.5...8.2mm
Cable length: 2m
Cable material: Shield PVC

Multifunctional temperature and Humidity Transmitter

Model: THT-S Series

Introduction

THT-S series humidity and temperature transmitter has 3 installation types (wall mount, duct and remote) for selection to adapt various environment. THT-S transmitter can measure -40~120°C temp. and 0~100%RH. Optional function Modbus RTU RS485, alarm output, psychometric calculations unit display are available for various requests.



THT-S WM Wall mount type



THT-S-D Duct type



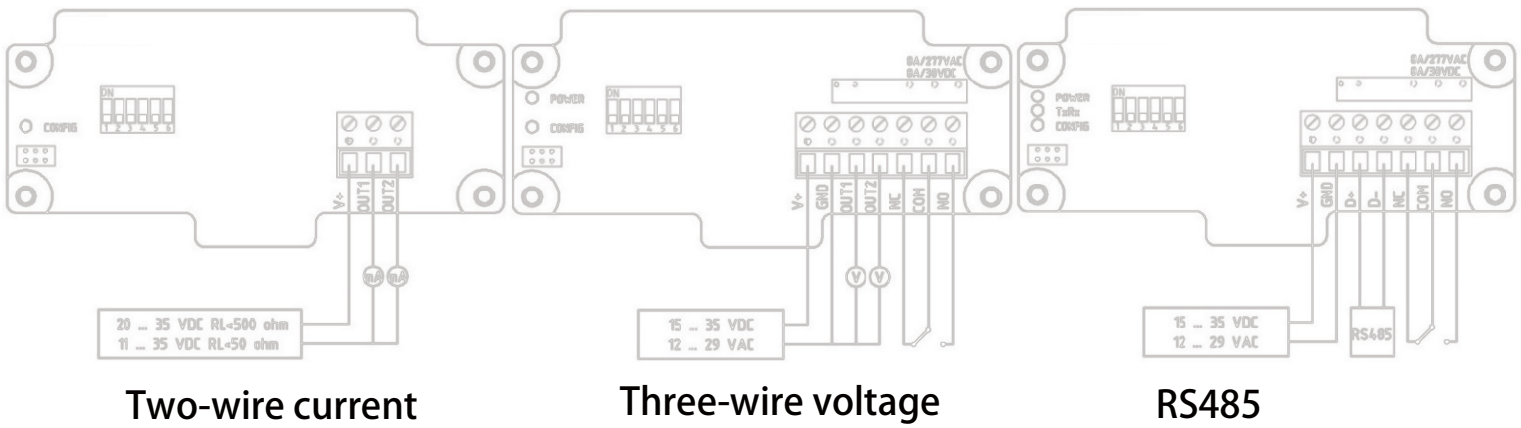
Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

Features

- Three installation types to meet various needs
- Temperature scale can be adjusted by dip switch
- Heat-, pressure-, and 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
- Alarm output function is available to control switch and power
- RS485 protocol can connect transmitter to computer to realize remote monitor multiple transmitters and value record and export through one computer



Wiring diagram



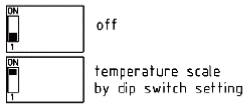
Two-wire current

Three-wire voltage

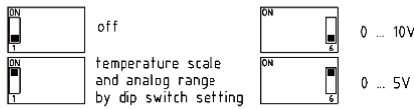
RS485

Dip switch

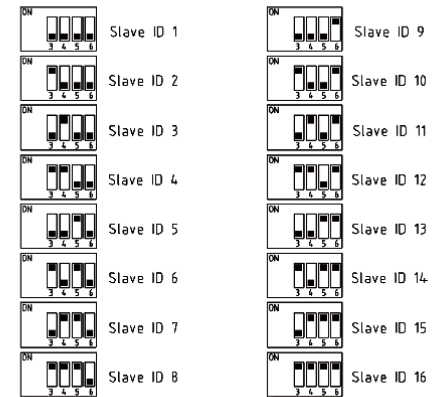
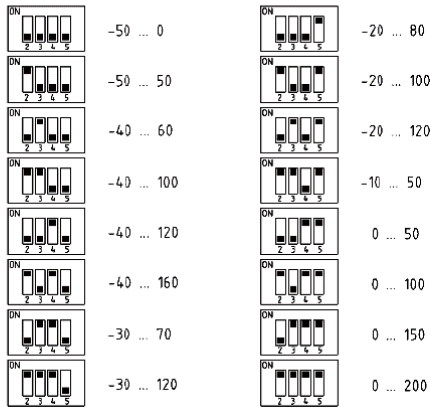
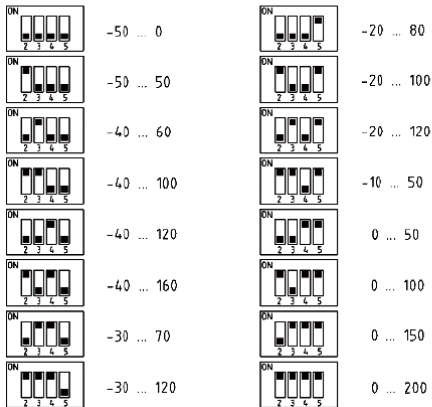
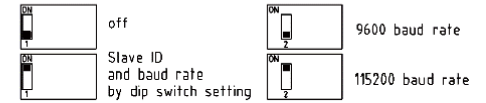
CAEL-2A



CAEL-3V



CAEL-RS485



How to order

THT-S		Multifunctional temperature and Humidity Transmitter with Display			
Code	Installation type				
WM	Wall mount				
D	Duct				
R	Remote				
Code	Output signal				
A	4-20mA				
B	0~1V				
C	0~5V				
D	0~10V				
E	RS485				
Code	Psychometric calculations				
Y	Yes				
N	No				
Code	Alarm output				
Y	Yes				
N	No				
Code	Other requests				
/A	Third party notarized documents				
/B	Inspection report (issued by Re-Atlantis)				
/C	Tag				
/D	Humidity accuracy 1.5%				
/E	Sintered stainless steel 70u				
/F	Sintered stainless steel 30u				
/G	Aluminum flange				
/H	Stainless steel screwed fitting				
/I	Wall mounting clip				
/J	Configure adaptor				
THT-S	WM	A	Y	N	Order example: THT-S-D-WM-A-Y-N+/D+/E