F2000TSM-TH SERIES DATASHEET

Temperature & Humidity Transmitter
Wall Mounting and Duct Type
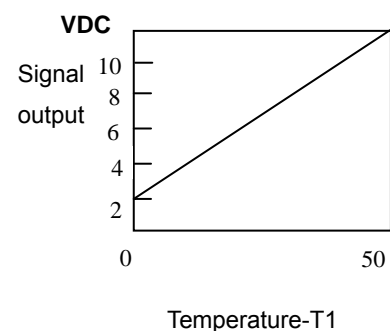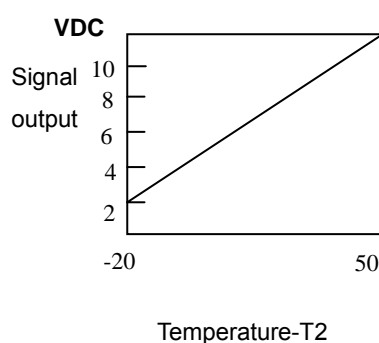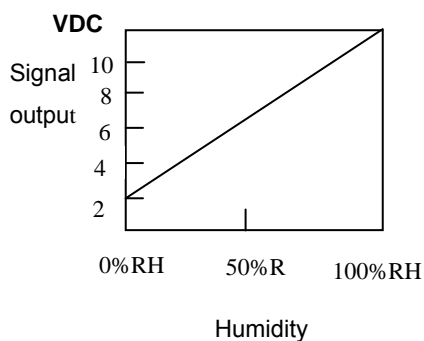CE-Approval

□ Features

- ◆ Designed for transmit relative humidity measurement and temperature measurement.
- ◆ Wall mounting and duct type selectable
- ◆ Provide 1x0~10VDC/0~5VDC/4~20mA humidity output, as well as a field range able
  0~10VDC/0~5VDC/4~20mA temperature output.
- ◆ Two temperature ranges selectable in orders
- ◆ Humidity output is automatically corrected over the full range of operating conditions
- ◆ One point field of temperature and humidity measurement modification
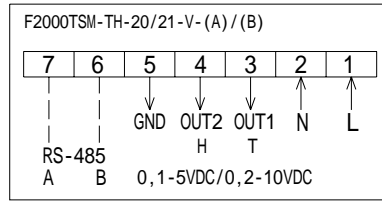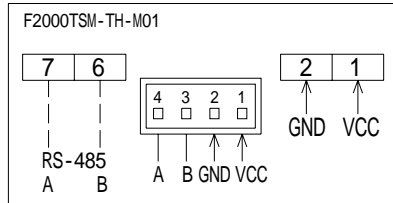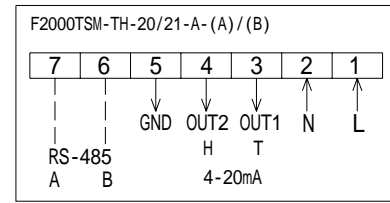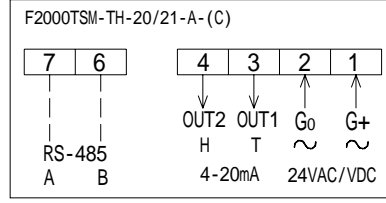- ◆ RS485 communication is optional

□ Specifications

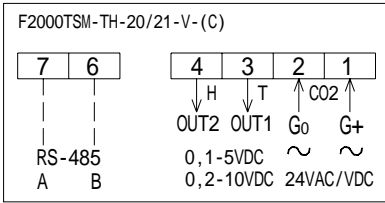|	Temperature	Humidity
Sensing element:	NTC	Capacitive sensor
Measuring range	Two ranges selectable T1: 0~50 T2: -20 ~50	10 -95%RH
Accuracy	±0.5 (25 , 40%-60%RH)	±3%RH(25 , 40%-60%RH) ±5%RH(25 , 20%-90%RH)
Stability	/	1%RH per year
Storage environment	-40-60	
Connection	Screw terminals, non-polar,	
Set measurement zone	The zero and the end can be set for F2000TSM-TH-XX1 models by the software	
Housing	PC/ABS fireproof material	
Output	2X0,1~5V/0,2~10V selectable by users via a jumper or 2X 4~20mA optional	
Power supply	24V DC or 24V AC ±20%	
Power cost	≤2W	
Resistance permitted	≤500Ω	

Note: It's delivered pre-calibrated to a specific temperature range. If a different range is desired, the temperature output can be re-ranged. Users can set again through RS485 for the models with RS485 interface, or order them in advance for other ranges.

Signal output responds to measuring range as below figures

Humidity

Temperature-T2

Temperature-T1

□ Wiring Diagrams

F2000TSMTH-20/21-V-(C)

7	6		4	3	2	1

H → OUT2, T → OUT1, CO2, G0, G+
0.1-5VDC / 0.2-10VDC   ~ ~ 24VAC/VDC
RS-485 A B

F2000TSMTH-20/21-A-(C)

7	6		4	3	2	1

OUT2 H, OUT1 T, G0, G+
4-20mA   ~ ~ 24VAC/VDC
RS-485 A B

F2000TSMTH-20/21-A-(A)/(B)

7	6	5	4	3	2	1

GND, OUT2 H, OUT1 T, N, L
4-20mA
RS-485 A B

F2000TSMTH-M01

7	6		4	3	2	1		2	1

A B GND VCC   GND VCC
RS-485 A B

F2000TSMTH-20/21-V-(A)/(B)

7	6	5	4	3	2	1

GND, OUT2 H, OUT1 T, N, L
0.1-5VDC/0.2-10VDC
RS-485 A B

□ Model Information

F2000TSM-TH-XXX-Z-(A/B/C)

power supply
A: 220VAC B: 110VAC C: 24VAC/VDC

M: wall mount
D: duct type

A 4~20mA output
V 0~10/0~5VDC output
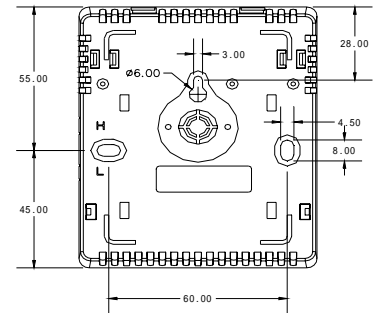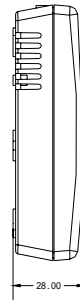
0: no analog output
1: 1X analog output for temperature
2: 2X analog outputs for temp.& humi.

0: no RS485
1: RS485 interface

□ Mounting

Wall mounting type

100mm
80mm

55.00   3.00   Ø6.00   28.00
45.00   4.50   8.00
28.00   60.00

Duct type

Ø16.50
95.00
196.00   27.00