

PROBE TEMPERATURE AND HUMIDITY TRANSMITTER



■ Features 產品特點

- Metal probe to withstand harsh environments and avoid electromagnetic interference.
- 0 ~ 100%RH measurement, temperature range up to +120°C (248 °F)
- RS485 Modbus data with integer and floating type. Support metric and imperial unit.
- Probe pressure up to 10 bar
- Analog dual channel with selectable physical quantity.

■ Applications 應用領域

- Semiconductor and microelectronics industry
- Pharmaceutical industry, paper industry
- Environmental chambers, drying equipment, spraying equipment
- Agriculture, farms
- Greenhouse, storage room, cooling chamber
- Building Automation
- Environment and ventilation control

■ Order Information 訂貨索引

MS — 8001 — 4 2 M 1M

A B C D E

A. Model:

8001
8001A
8001B

C. Temperature Scale:

1 - 0 ~ 50°C
2 - 0 ~ 100°C
S - By order

E. Cable length:

1M - 1 Meter
2M - 2 Meter
5M - 5 Meter

B. Output:

4 - RS485
6 - 0 ~ 1V

D. Psychometric calculations:

(Option)
M - Yes
X - No

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■ Specifications 規格

Model Name		MS-8001A	MS-8001	MS-8001B
Humidity 濕度	Measurement range 量測範圍	0 ~ 100 %RH	0 ~ 100 %RH	0 ~ 100 %RH
	Accuracy(including non-linearity, hysteresis, and repeatability) 精度 (包含非線性誤差, 遲滯誤差, 和非重複性誤差)	±1.5%RH@25°C(20~80%RH)	±2%RH@25°C(20~80%RH)	±3%RH@25°C (20~80%RH)
		±2%RH@25°C (0~20%RH)/ (80~100%RH)	±3%RH@25°C (0~20%RH)/ (80~100%RH)	
	Temperature coefficient 溫度係數	typ. ±0.02%RH/°C (from 0°C to 80°C)		
	Humidity Hysteresis 遲滯誤差	±1%RH		
	Recovery time after 150 hours of condensation 回復時間,在150小時結露之後	10 second		
	Long term drift 長時間飄移	0.5%RH/year		
	Response Time from 33 to 75%RH 反應時間從33 到 75%RH	10 second (at 1m/s air flow)		
Temperature 溫度	Measurement range 量測範圍	-20 ~ 80°C		
	Accuracy (including non-linearity, hysteresis, and repeatability) 精度	±0.7°C (-40 ~ 5°C) / ±0.3°C (5 ~ 60°C) / ±0.9°C (60 ~ 120°C)		
	Long term drift 長時間飄移	0.04°C/year		
	Response Time from 15 to 45°C 反應時間從15 到 45°C	1 minute (at 1m/s air flow)		
Analog output 類比輸出	Voltage output 電壓輸出	0 ~ 1V		
	Accuracy @25°C 精度	±0.1% full scale		
	Temperature dependence 溫度係數	±0.005%/°C full scale		
	External loads 輸出負載	current outputs RL < 500 ohm/ voltage output 0 ~ 1 V output RL > 2K ohm		
Digital output 數位輸出	RS485	meet the standards TIA/EIA-485-A		
	Protocol	MODBUS RTU		
Psychrometric calculations(Optional) 濕度單位選擇(選配)		(Td) dew point temperature, (Tf) frost point temperature, (Tw) wet bulb temperature, (A) absolute humidity, (R) mixing ratio, (E) water vapor pressure, (S) enthalpy		
Power supply 電源供應	DC Voltage 直流電壓	5 VDC ±10%		
Power consume (20°C, +24VDC) 電流消耗	Voltage output 電壓輸出	typ. 35mA		
	Rs485 output RS485輸出	typ. 35mA		
Mechanics 機構	Probe material 外殼材質	brass nickel-plated		
	Housing classification 保護等級	IP 24		
	Probe pressure 測棒耐壓	10bar		
	Cable length 電纜長度	2 Meter		
	Cable material 電纜材質	shield PVC		
temperature range 工作溫度		-40 ~ 85°C (-40 ~ 185°F)		
Electromagnetic compatibility 電磁干擾防護		Complies with EMC standard EN61326-1, Industrial Environment		

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