

ECONOMIC MODEL DEW POINT TRANSMITTER



Wall mount type

Duct type

Remote probe type

Outdoor

■ Features

- Configure adaptor available for setting.
- Single channel with selectable physical quantity.
- With sensing element module for easy replacement and repair.
- RS485 Modbus data with integer and floating type. Support metric and imperial unit.
- 3 models for industrial applications
- 0 ~ 100%RH measurement, temperature range up to +120°C (248 °F)
- Excellent quality and stable measurement
- IP-65 housing

■ Applications

- 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

MEDP	—	130	—	2	2	A	D1
H		B		C	I	E	G

H. Model:

MEDPAA
MEDPA
MEDP

B. Installation:

110 - Wall mount
120 - Duct
130 - Remote probe
140 - Outdoor

C. Output:

2 - 4 ~ 20mA
3 - 0 ~ 10V
5 - 0 ~ 5V
6 - 0 ~ 1V
4 - RS485

I. Dew point Scale:

1 - -20 ~ 60°C
2 - -40 ~ 60°C
3 - -40 ~ 20°C
4 - -60 ~ 20°C
S - By order
X - No

E. Connection:

A - Cable gland
B - M12-4 pin (with 2m cable)

G. LED Display :(Option)

D1 - Forward
D2 - Reverse

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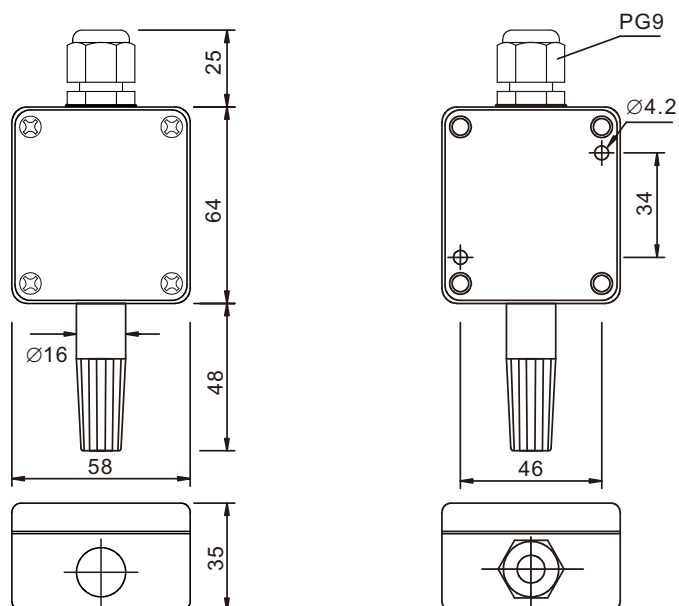
■ Specifications 規格

Model Name		MEDPAA	MEDPA	MEDP
Humidity 濕度	Measurement range 量測範圍	-60 ~ 60°C Td	-40 ~ 60°C Td	-20 ~ 60°C Td
	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)	±3°C Td@25°C		±5°C Td @25°C
	Temperature coefficient 溫度係數	typ. ±0.05%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	0.25%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	-40 ~ 120 °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	0.02°C/year		
Analog output 類比輸出	Current output 電流輸出	3-wire, 4 ~ 20mA		
	Voltage output 電壓輸出	3-wire, 0 ~ 1 V / 0 ~ 5 V / 0 ~ 10 V		
	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 0 ~ 5 V and 0 ~ 10 V outputs RL > 10K 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, (V) PPMv, (W) PPMw		
LED Display (option)	Number of bits 位數	3-digit, 0.4 "7-segment LED		
	Display method 顯示方式	OUT1 stable, OUT2 flash 3 time, alternate		
LED 顯示器	View direction 顯示方向	Forward or Reverse		
Power supply 電源供應	DC Voltage 直流電壓	15 ~ 35VDC		
	AC Voltage 交流電壓	12~ 29 VAC		
Mechanics 機構	Housing material 外殼材質	PC, POLYCARBONATE		
	Housing classification 保護等級	IP 65		
	Probe pressure 測棒耐壓	10bar		
	Cable of remote probe version	2m, shield PVC 80° C		
Probe material 測棒材質	Wall mount version 壁掛型	ABS		
	Duct version 風管型	aluminum		
	Remote probe version 分離型	brass nickel-plated		
temperature range 工作溫度		Without display -40 ~ 80°C (-40 ~ 176°F)/ With display -25 ~ 80°C (-13 ~ 176°F)		
Probe temperature range 棒測工作溫度		Duct and remote probe version -40 ~ 120 °C (-40 ~ 248 °F)		
Electromagnetic compatibility 電磁干擾防護		Complies with EMC standard EN61326-1, Industrial Environment		

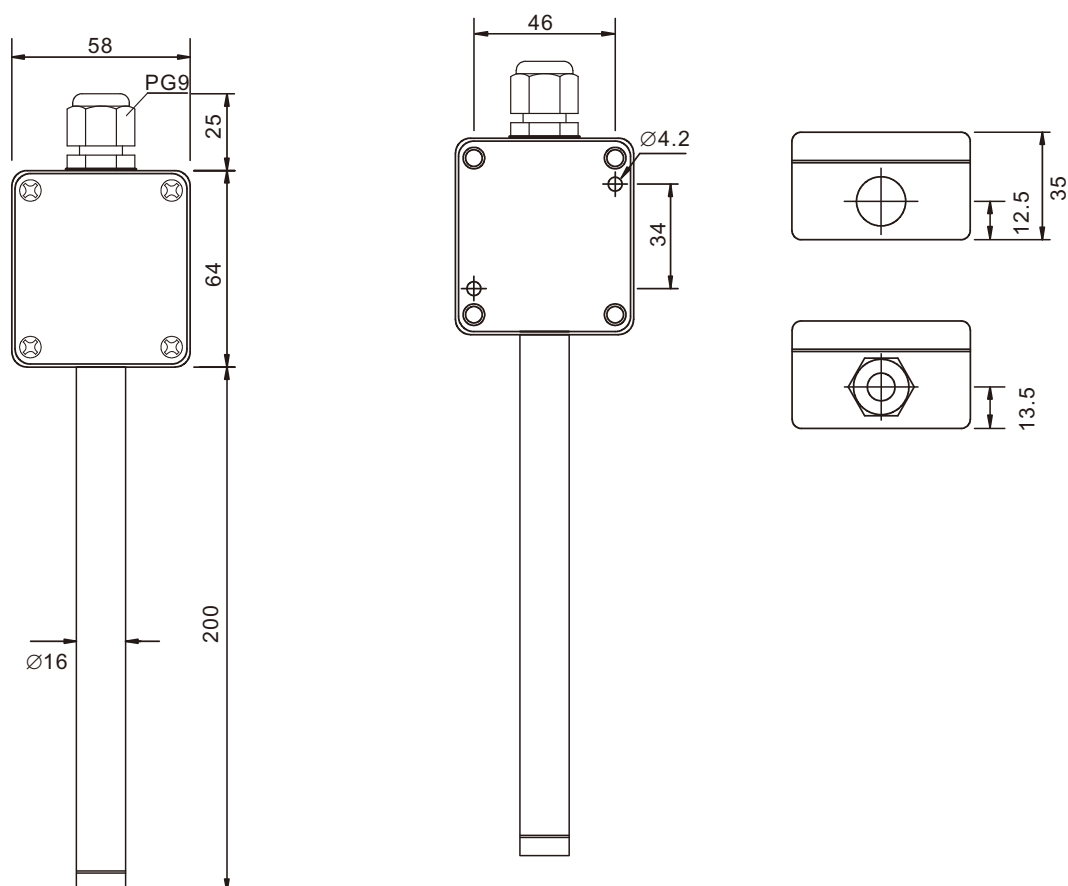
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DIMENSIONS (mm)

110 Wall mount version

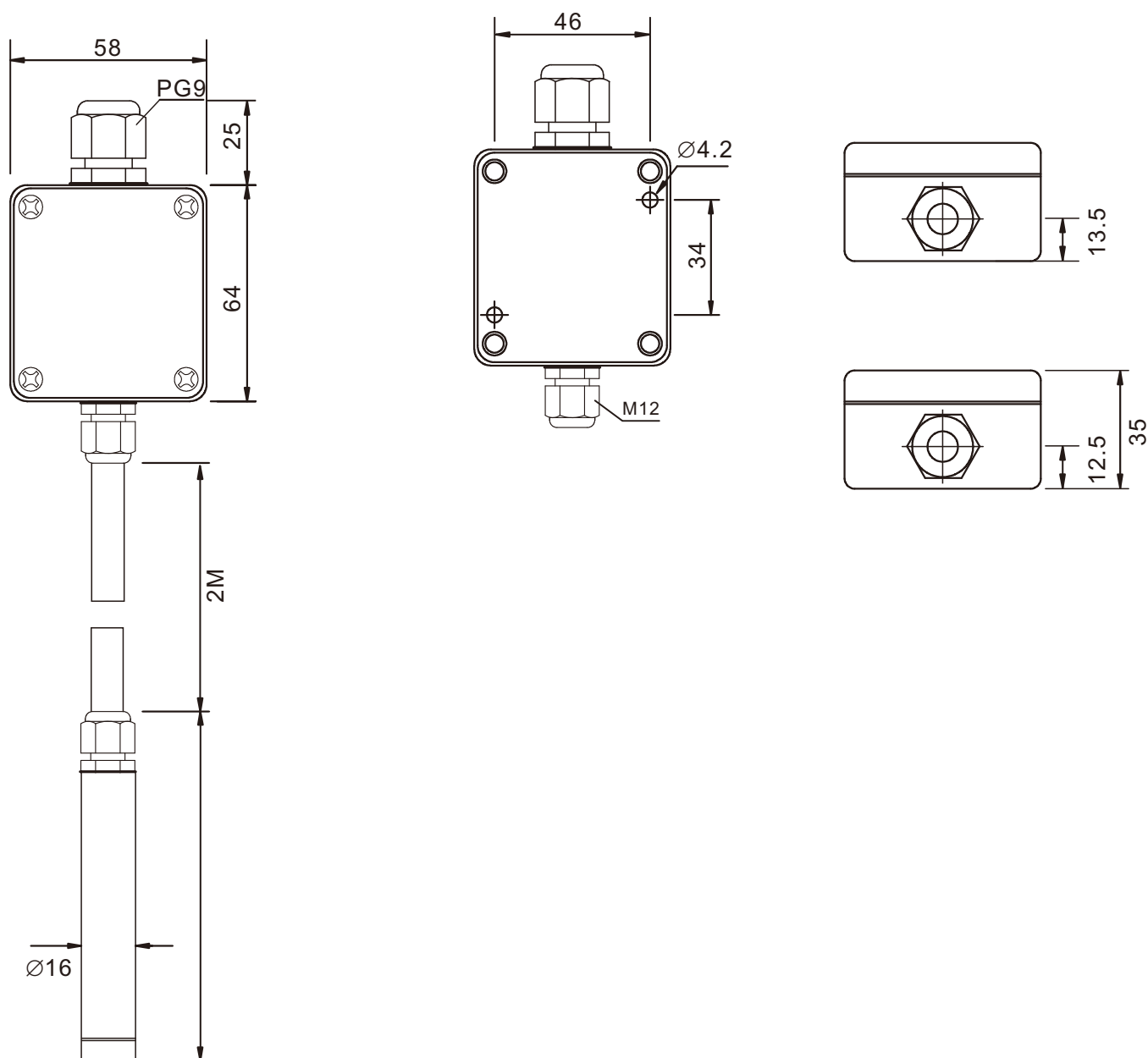


120 Duct version



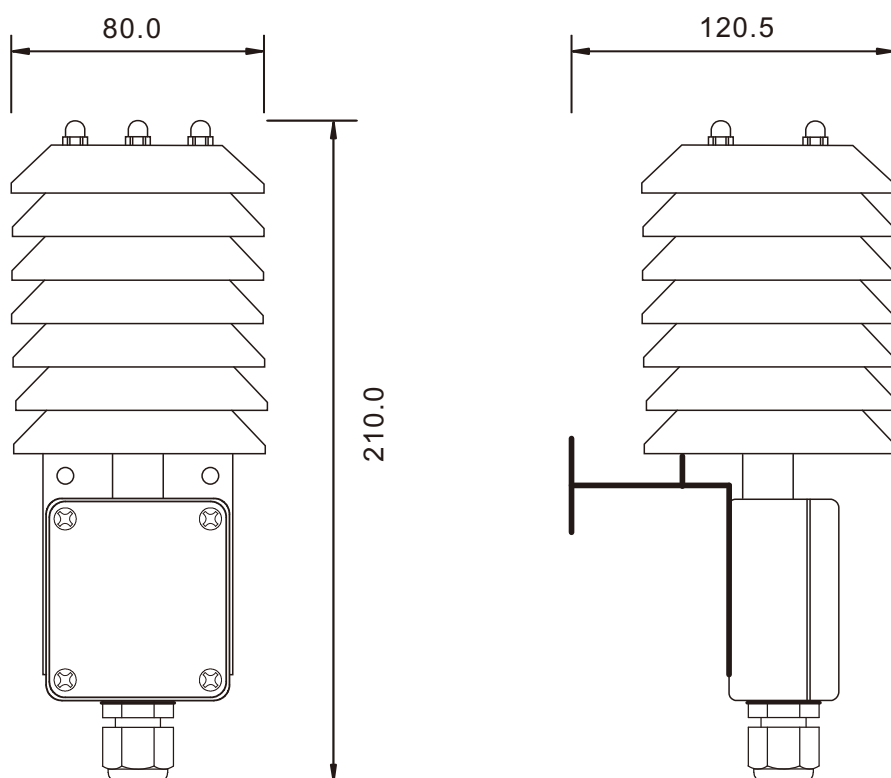
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130 Remote probe version



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140 Outdoor version

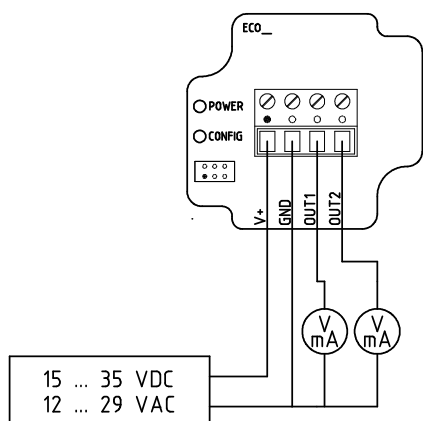


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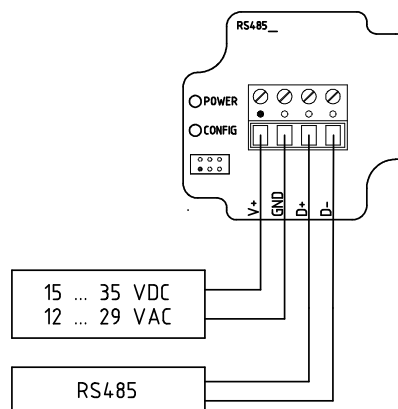
CONNECTION DIAGRAMS

Cable gland with terminal block

Analog output

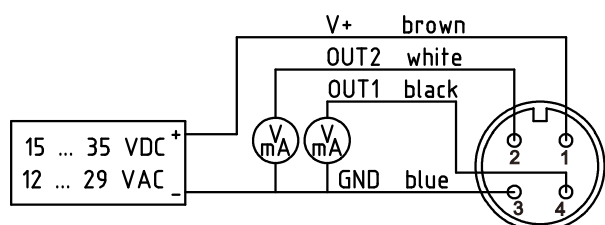


RS485 output

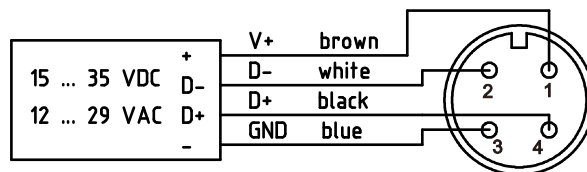


M12 – 4 pin

Analog output

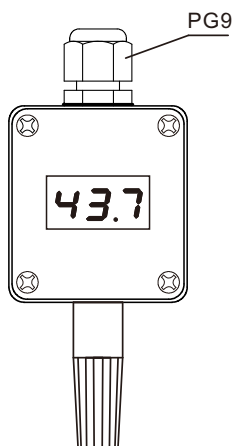


RS485 output

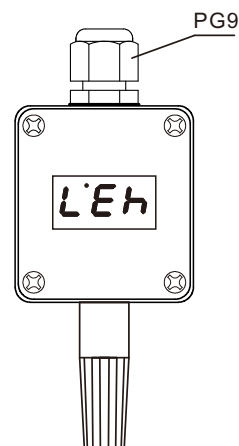


LED DISPLAY

Forward view : D1



Forward view : D2



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PHYSICAL QUANTITY OUTPUT RANGE

	<u>Metric</u>	<u>Imperial</u>
- Temperature <u>T</u>	-40 ... 120 °C	-40... 248 °F
- Relative Humidity <u>RH</u>	0 ... 100 %	0 ... 100 %
- Dew point <u>Td</u>	-20 ... 100 °C	-4 ... 212 °F
- Frost / dew point <u>Tf</u>	-20 ... 100 °C	-4 ... 212 °F
- Wet bulb temperature <u>Tw</u>	-40 ... 100 °C	-40 ... 212 °F
- water vapor pressure <u>E</u>	0 ... 1013 mbar	0 ... 14.7 psi
- Mixing ratio <u>R</u>	0 ... 30000 g/kg	0 ... 210000 gr/lb
- Absolute humidity <u>A</u>	0 ... 550 g/m ³	0 ... 240 gr/ft ³
- Enthalpy <u>S</u>	-40 ... 40000 kJ/kg	-10 ... 20000 BTU/lb

Contact

Head Office

Add: 11F., No.168, Jiankang Rd., Zhonghe Dist., New Taipei City 235, Taiwan

Tel: +886-2-2228-7950 (Rep.)

Fax: +886-2-2228-6140

E-mail : service@maxthermo.com.tw

Web : www.maxthermo.com

Showroom

Add: 3C25, Taipei World Trade Center, No. 5, Sec. 5, Hsin Yi Rd. Taipei Taiwan

Tel: +886-2-2720-6601

Fax: +886-2-2345-5120

Thailand Office

Add: 86/132-133 m.7 Samaedum Bangkoontien 10150 Thailand.

Tel: +662-415-8318 , +662-417-2548-49

Fax: +662-415-8798

Web : www.thaimaximum.com