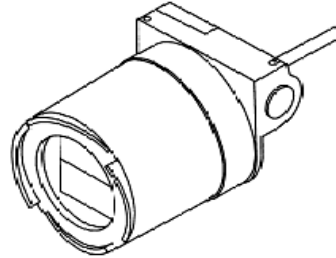


H4112 DewPoint & Temperature Transmitter

Model Selection Guide

- Dual output moisture and Temperature transmitter
- Moisture output can be dew point, % RH, Humidity Ratio or wet Bulb temperature.
- Operating Temperature up to 540°C (1000°F) with cooler
- High pressure probe optional (up to 2000 psi)
- NIST Traceable calibration
- See Product Spec 70-82-03-21 for further information



Instructions

- Select the desired Key Number. The arrow to the right marks the selection available.
- Make one selection each from Table I using the column below the proper arrow.
- A dot (•) denotes unrestricted availability.

Key Number I II III IV (Optional) *
 [] - [] - [] - [] - [#]

* Please note '#' must replace ',' in option field.

KEY NUMBER	Description	Selection	Availability
H4112	Dew Point and Temperature Transmitter	H4112	↓

TABLE I - PROBE LENGTHS

Standard Length 12 Inches / 304,8 mm	12	•
Non-Standard Lengths - Specify in inches		
2 Inches / 50,8 mm	02	•
4 Inches / 101,6 mm	04	d
6 Inches / 152,4 mm	06	•
24 Inches / 609,6 mm	24	•
30 Inches / 762,0 mm	30	•

TABLE II - STANDARD RANGE AND OUTPUT OPTIONS

Eng. Units/Application	4-20 mA Output (Note1)		
Dew Point: General Use and for "wet" applications including industrial drying	Dry Bulb Temp: 0°C to 204.7°C (32°F to 400.5°F)	D1	•
	Dew Point Temp: -104.7°C to 100°C (-156.5°F to 212°F)		
Dew Point: Tight Mid-range control, as in clean rooms, etc.	Dry Bulb Temp: 0°C to 40.94°C (32°F to 105.69°F)	D2	•
	Dew Point Temp: -12.8°C to 28°C (8.96°F to 82.67°F)		
Dew Point: Ideal for trace moisture measurements, i.e. dry gas, instrument air, and outdoor measurements	Dry Bulb Temp: -50°C to 52.3°C (-58°F to 126.14°F)	D3	•
	Dew Point Temp: -60°C to 42.3°C (-76°F to 108.14°F)		
Dew Point: Trace moisture with higher dry bulb capabilities than D3 range	Dry Bulb Temp: -17.8°C to 93.3°C (0°F to 200°F)	D4	•
	Dew Point Temp: -17.8°C to 37.8°C (0°F to 100°F)		

H4112

TABLE II - STANDARD RANGE AND OUTPUT OPTIONS (continued)

Wet Bulb Output: Valid at 1 atmosphere total pressure	Dry Bulb Temp: 0°C to 204.7°C (32°F to 400.5°F)	W1	•
	Wet Bulb Temp: -10°C to 100°C (14°F to 212°F)		
High Accuracy Relative Humidity Output	Dry Bulb Temp: 0°C to 204.7°C (32°F to 400.5°F)	R1	•
	Relative Humidity 0 to 100%		
Humidity Ratio Output: Valid at 1 atmosphere total pressure	Dry Bulb Temp: 0°C to 204.7°C (32°F to 400.5°F)	H1	•
	Humidity Ratio: 0 to 0.5lb H ₂ O/lb dry air (0-3500 grains/lb)		
Humidity Ratio Output: Valid at 1 atmosphere total pressure	Dry Bulb Temp: 0°C to 40.94°C (32°F to 105.69°F)	H2	•
	Humidity Ratio: 0 to 0.024lb H ₂ O/lb dry air (0-168 grains/lb)		
Humidity Ratio Output: Valid at 1 atmosphere total pressure	Dry Bulb Temp: -50°C to 52.3°C (-58°F to 126.14°F)	H3	•
	Humidity Ratio: 0 to 0.05lb H ₂ O/lb dry air (0-350 grains/lb)		

Note 1: Please note that the Dry Bulb and the Dew Point Temperature ranges shown here relate to the 4 to 20 MA output range and **not** to the actual operating range of the transmitter.

TABLE III - TEMPERATURE DISPLAY (Select One)

Display in °C	C	•
Display in °F	F	•

TABLE IV - OPTIONS **

None	000	•
Pipe/Wall Bracket Kit	100	•
High Pressure Probe: up to 2000 psi	110	c
FM Intrinsically Safe (24 Volt only)	209	e
CE Compliant (24 Volt DC Power, Intrinsically Safe)	210	•
Stainless Steel Tag, up to 25 characters each of 3 lines	208	•

RESTRICTIONS

Restriction Letter	Available Only With		Not Available With	
	Table	Selection	Table	Selection
c	I	04,12	IV	100
	II	D3		
d	IV	110		
e			IV	210

** See H4113 Accessories MSG (page DPM-9) for coolers, filters, high pressure insertion removal device, calibration items etc.