Kjaerulf Pedersen a/s

Humidity, temperature and dewpoint sensor.

4-20mA output. M12 Connection.





Application:

- For measuring Humidity. Dewpoint and Temperature.
- 4-20 mA@13,5-30V supply.
- Selectable output.

Properties:

- Electrical connection: M12 Connector. (degree of protection IP 67)
- Ambient temperature min/max: -40/+80°C
- Withstands vibrations.
- For Harsh environments.
- Extended EMC protection.
- For indoor and outdoor use.



MECHANICAL SPECIFICATIONS:

Mounting holes for M5. Two holes (diameter 5,2mm) with 54mm from centre to centre. Dimensions:

W,L,H: 40,72,25 mm

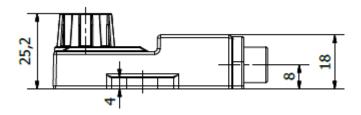


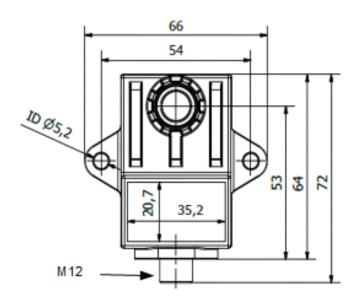
Supply:

13,5-30 VDC.

Output:

4-20mA, current limited to max 20mA.





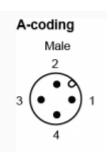
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M12 connector coding: "A".

M12 connector pin-out: o Pin 1: Operating voltage

o Pin 2: Pin 4 output selector, see table below. Internally tied Low. o Pin 3: Pin 4 output selector, see table below. Internally tied Low.

o Pin 4: Signal output 4...20 mA. Output value, see table below



PIN 2	PIN 3	Output value on PIN 4
Low	Low	0 – 100% Rh
High	Low	Temperature -40 - +80°C
Low	High	Dew point -20 - +80°C.
High	High	3,5mA out

Accuracy: Burden: 50 Ohm

Measuring accuracy at 23-25 °C and 20 - 28 VDC:

Humidity:

0...90 % Rh: +/- 3,5 % Rh 90...100 % Rh: +/- 5,0 % Rh

Temperature:

±2°C.

Dewpoint: ±1°C.

Yearly drift: <= 0,5 % Rh per year

ENVIRONMENTAL:

Temperatures:

Ambient Temperature: -40°C to 80°C.

Protection degree according to EN 60529: >= IP65

EMC:

Emission: Industrial, EN 61000-6-4 Immunity: Industrial, EN 61000-6-2

Vibration:

Random 5g 50Hz – 1kHz. EN 60068-2-34 Shock 30g EN 60068-2-27