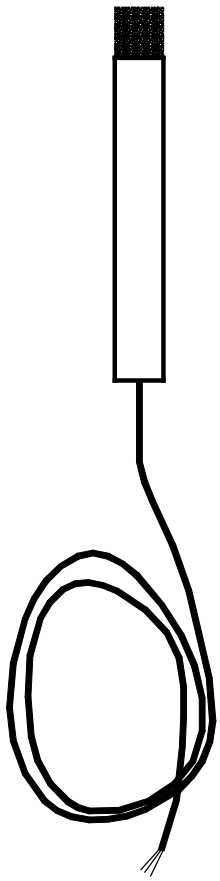
MONITOR SENSORS

HU
HT

µSMART Relative Humidity Sensor

The ***µSMART*** humidity sensor is designed to measure the relative humidity of the surrounding air. The sintered bronze diffuser protects the sensing element from dust but allows gas to flow around the element. For a faster response, mechanical ventilation over the diffuser should be provided.

The sensor ***Monibus*** interface allows the user to modify the sensor operation through the built-in sensor menus. The sensor incorporates a microprocessor to provide accurate, repeatable readings and to allow optional analogue outputs. The robust mechanical design ensures a long operational life.



Mechanical
- Stainless Steel body
- High durability cable

Specifications

Range: **HU** 0 … 100 % RH
HT 0 … 100 % RH -20°C to +60°C

Accuracy: **HU** ± 2%
HT ± 2% ± 0.1°C

Operational: -20°C to +60°C 0% to 100%RH

Output options:
- ***Monibus*** serial data ASCII format
- Voltage 0-1, 0-2.5 volts
- 4-20mA (requires >12Vdc supply)
- Frequency TTL pulse 2-10 Hz

Power Supply: 6-28 Vdc unregulated

Supply current: 3 mA active
0.5 mA economy mode

Sensor weight: 230 grams

Dimensions: Overall height – 200 mm x 25 mm Ø

Mounting: 25 mm Ø
dwg no: MSM-06-0038

Cable Details: Standard product has 800 mm of cable – other cable lengths may beordered

Warranty: **12 months** – full details can be found in the Monitor Sensors standard warranty document
http://www.monitorsensors.com/docs/std_warranty.pdf

Order codes:

HU1	standard sensor	**HU1-C**	Hi/Low control	**HT1**	standard sensor
HU1-V1	0…1 volt output	**HU1-CV1**	V1 + Hi/Low control	**HT1-V1V1**	0…1 volt output
HU1-V2	0…2.5 volt output	**HU1-CV2**	V2 + Hi/Low control	**HT1-V2V2**	0…2.5 volt output
HU1-A4	4…20 mA output	**HU1-CA4**	A4 + Hi/Low control	**HT1-A4A4**	4…20 mA output
HU1-F	2 … 10 Hz TTL				

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