

Ultrasonic snow depth sensor

USH8
SHM30

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Non-contact measurement of snow-depth in extreme conditions by ultrasonic sensors. The sensor is characterized by its high level of operating reliability, low energy consumption and ease of use in the field.

Measurement range – Snow depth	Measurement range: 0 to 8 m; resolution: 1 mm; accuracy: 0.1 % (FS) Measurement principle / sensor: ultrasonic (frequency 50 kHz; beamwidth 12°)
Measurement range – Temperature	Measurement range: -35 °C to +60 °C; resolution: 0.1 °C; non-linearity: ≤0.15 % Measurement principle / sensor: semiconductor (external sensor in air-cooled radiation shield)
Interface – Analog	Distance / snow level Signal: 0/4 to 20 mA (configurable); resolution: 12 bit; max. load 100 Ω
Interface – Digital	Distance / snow level and air temperature Interface: RS 232; data transmission rate: 1.2 to 19.2 kBd Protocol: various ASCII protocols
Power supply	Supply voltage: 10.5 ... 15 VDC Current consumption: max. 200 mA (Measuring phase about 3 sec); <1 mA (Standby) Power consumption: 0.5 Ah / day (with measuring interval of 1min)
Range of application	Operating temperature: -35°C to +60°C
Protection rating	IP66
Installation	Mast-mounting device for 61 mm (2 ") pipe