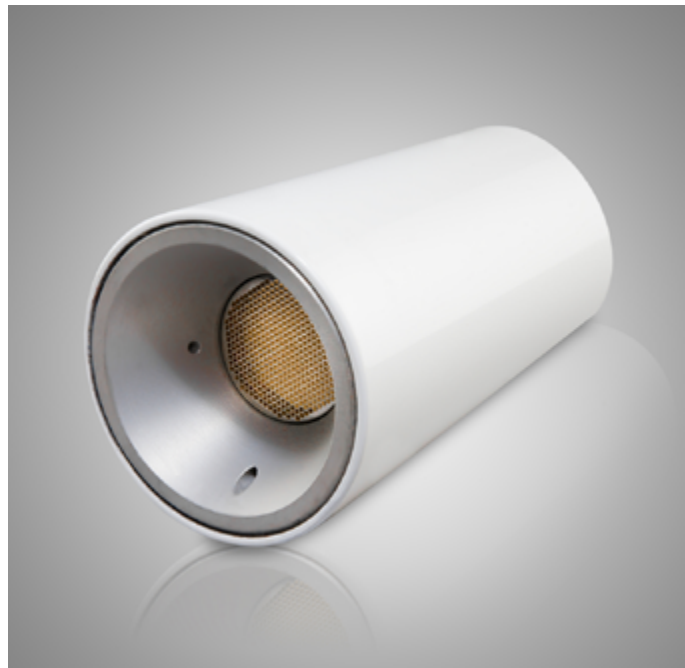


SD-9

Ultrasonic Distance Sensor

The SD-9 developed and manufactured by MicroStep-MIS, is a robust and reliable solution for measuring snow or water height.



High accuracy



High range



Robust construction



Maintenance free

The microprocessor controlled probe measures distance from the solid obstacle and provides either the measured distance, or the difference of the pre-set constant and the measured distance as an output (e.g. in case of snow or water height measurement). On demand, sensor can be equipped with additional heating for icing elimination. Sensor is able to

compensate the distance according to actual temperature - either measured by external device or automatically by connected PT100 temperature probe. The SD-9 is usually mounted on meteorological mast using optional cross arm up to height of 10 meters.

Technical data

Mechanical parameters

Dimensions	Ø 76 x 180 mm
Weight	2 kg

Measurement

Sensor installation height (distance range)	0.5 m to 10 m
Measurement range (snow depth or water level)	0 m to 10 m
Measurement time	user configurable
Resolution	1 mm
Accuracy	± 0.5 cm or ± 0.2 % of measured value whichever is greater
Beam width	30 °

Electrical parameters

Interfaces	RS-232 (optional RS-485)
Supply voltage	10 to 15 V DC
Supply current	down mode 30 mA, during measurement < 150 mA

Environmental parameters

Operating temp. range	-40 °C to +70 °C
Storage temperature range	-50 °C to +85 °C
Operating humidity range (non-condensing)	0 to 100 %RH
Operating wind speed range	0 to 60 m/s

Typical usage scenario

