

Technical Data

Snow Depth Sensor SHM31



General	
Dimensions (LxWxH)	302 × 130 × 234 mm
Weight	2.35 kg
Operating parameters	
Temperature range	-40 ... +50 °C
Relative humidity	0 ... 100%

Measuring parameters	
Snow Depth	0 ... 15 m
Mounting distance to surface	0.1 ... 16 m
Accuracy (snow depth) ²	± (5 mm + 0.06 %)
Repeatability	0.6 mm
Intermediate precision/ reproducibility	5 mm

Data-interfaces	
RS485	Modbus RTU , ASCII, UMB protocol
RS232	ASCII protocol
SDI-12	SDI-12 protocol
Data transfer mode	Polling (UMB, ASCII, SDI-12); Auto telegram output (ASCII)

Electrical parameters	
typ. power consumption at 24VDC and 10 s measurement	without heater: approx. 0.7 W; with window heating: approx. 3.4 W
Power supply	12 or 24 VDC, tolerance +/- 15%
Maximum power consumption(connecting power with heater on)	18 W

Safety	
Laser classification	Laser class 2 (IEC 60825-1:2014); complies with 21 CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007
Protection class	IP68
EMC	EN 61326-1:2012 (industrial standard)
EC	2014/30/EU & RoHS 2011/65/EU