



## Snow Depth

S1345Z

- **Rugged, for harsh environments**
- **Low power, low maintenance**
- **Aluminum housing**
- **Easy to use**

The snow depth sensor was designed to meet the stringent requirements of measuring snow depth. The rugged aluminum housing is engineered to withstand harsh environments and offers flexible mounting options.

The sensor determines snow depth by measuring the elapsed time between emission and return of an ultrasonic pulse. The snow depth sensor is microprocessor based, and makes use of a unique echo processing algorithm to ensure measurement reliability. Measurement quality numbers can be optionally output for diagnostic purposes or for data quality control. An air temperature measurement is required to correct for variations of the speed of sound in air.

The snow depth sensor is easy to install. Low power consumption and low maintenance make the snow depth sensor well suited for remote automated systems.

Applications Include:

- Meteorology
- Hydrology
- Roadway maintenance
- Forestry
- Avalanche forecasting
- Glaciology
- Agriculture





## Technical Specifications

S1345Z

|                        |   |
|------------------------|---|
| Current Draw:          | 2 mA (quiescent)<br>250 mA (peak)                             |
| Measurement Range:     | 0.5 to 10 meters  |
| Accuracy:              | +/- 1 cm or 0.4% of distance to target (whichever is greater) |
| Resolution:            | 0.1 mm  |
| Beam Angle:            | approx. 22°   |
| Operating Temperature: | -30°C to +50°C (standard)<br>-45°C to +50°C (optional)        |

### PHYSICAL

|                       |   |
|-----------------------|---|
| Maximum Cable Length: | 60 m (longer cable is available - call Coastal for details) |
| Dimensions:           | 31 cm (length), 7.5 cm (diameter)                           |
| Weight:               | 1.3 Kg  |