

Model 5428 RWIS Snow Depth Sensor

- Ultrasonic Technology
- 1.6 to 32.8 ft (0.5 to 10 m) Range
- Analog Interface



PHONE: (800) 275-2080

HIGH SIERRA ELECTRONICS, INC.

FAX: (530) 273-2089



DESCRIPTION:

The Model 5428 RWIS Snow Depth Sensor is an ideal solution for remotely monitoring snow depth or water levels. The sensor works by measuring the time required for an ultrasonic pulse to travel to/from a target surface. An integrated temperature probe with solar radiation shield, provides an air temperature measurement for properly compensating the distance measured. An embedded microcontroller calculates a temperature compensated distance and performs an error checking routine.

Both distance and air temperature measurement are output as a analog signal between 0 to 2.5 V or 0 to 5 V.

SPECIFICATIONS:

Snow Depth

Range 1.6 to 32.8 ft (0.5 to 10 m)

Accuracy ± 0.39 in (1 cm) or 0.4% distance to target

Resolution 0.12 in (3 mm)

Temperature

Range -40° to 185° F (-40° to 85° C)

Accuracy 1.8° F (1° C)

Resolution 0.9° F (0.5° C)

Analog Output 0 to 2.5 VDC or 0 to 5 VDC

Digital Output 1200 baud serial ASCII

Beam-width 22 degrees

Operating Voltage 12 to 24 VDC

Current Draw 50 mA (maximum sample time 2.4 seconds)

Operating Temperature -40° to 158° F (-40° to 70° C)

Cable 25 ft (7.6 m)

Max Cable Length 1000 ft (304 m) for analog output, 250 ft (76 m) for digital output

Mounting 0.5 in (1.27 m) galvanized threaded pipe

Dimensions 3 x 3 x 5 in (8 x 8 x 13 cm)

Weight 1.3 lbs (0.6 kg)

ORDERING GUIDE:

Model 5428-00 Ultrasonic Snow Depth Sensor with 25 ft (7.6 m) Signal Cable

02-5428-00(B)

Environmental Monitoring Solutions

WEB SITE: www.highsierraelectronics.com E-MAIL: sales@highsierraelectronics.com