Vicotee

AURORA – SNOW SONAR

A wireless IoT sensor system

ABOUT

The Snow Sonar contains a snow calibrated ultrasonic transmitter and receiver, allowing you to measure distance to snow located in front of it. The sensor is not affected by color or other visual characteristics of the detected object. Ultrasonic sensors use high frequency sound to detect and localize objects in a variety of environments.

Connectivity

The module can be configured with SmartMesh IP, Sigfox, LoRa or NarrowBand IoT.

GENERAL SPECIFICATION

PARAMETER	Min	Max
Storage temperature [1]	-20° C	40° C
Operating Temperature [2]	-40° C	60° C
Supply Voltage	2.2 V	3.6 V
Range	Up to 5 meters	
Resolution	1 mm	
Recommend Min. Range[3]	50 cm	
IP Rating	IP67	

Specifications and information herein are subject to change without notice.

(1) Storage temperature with lithium battery.
(2) The maximum operating temperature can be lower depending on radio mainboard to be equipped with this module.
(3) Because of acoustic effects in the near field, objects between 30-cm and 50-cm may experience acoustic phase cancellation of the returning wave, resulting in inaccuracies of up to 5-mm. These effects become less prevalent as the target distance increases, and have not been observed past 50-cm. For this reason, users that require the highest accuracy are encouraged to mount the sensor farther than 50-cm away from objects.