

GMON3

Snow Water Equivalency Sensor

Sales & Support

Intermountain Environmental
(800) 948-6236 or (435)755-0774
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The GMON3* uses an innovative, non-contact method of measuring snow water equivalency (SWE). It monitors gamma rays that are naturally emitted from the ground. An attenuation of the gamma ray emissions occurs as snow accumulates. Snow with a higher water-content level causes a higher attenuation of the gamma ray emissions, making it possible to calculate SWE from the gamma ray measurements.

Mounting

The GMON3 is typically mounted to a user-supplied 10-ft-long pipe via one 27412 Mounting Kit and two 27413 Right Angle Mounting Kits. The user-supplied pipe is supported by two masts, towers, or poles.

Features/Benefits

- Excellent alternative for traditional snow pillows
- Non-contact method of monitoring SWE
- Performance not affected by adverse weather
- Measurements that cover a large surface area (approximately 1000 square feet)
- Effective with any type of snow or ice



*The GMON3 monitors naturally occurring gamma radiation. No special licenses or precautions are required to install or operate the GMON3.

Ordering Information

Snow Water Equivalency Sensor

GMON3-L CSC Snow Equivalency Sensor with user-specified length. Enter length, in feet, after the -L. Maximum length is 90 ft.

Accessories

27412 GMON3 Mounting Kit
27413 GMON3 Right Angle Mounting Kit

Specifications

Power Requirements:	11 to 15 Vdc
Power Consumption:	180 mA
Measurement Time:	24 hours
Output Format:	RS-232 (1200 to 115200 bps)
Measurement Range:	0 to 2 ft (0 to 600 mm) water equivalency
Accuracy¹	
0 to 1 ft:	±0.6 in. (±15 mm)
1 to 2 ft:	±15%
Resolution:	0.004 in. (1 mm)
Coverage Beam Angle:	60°
Dimensions without shield	
Length:	24.4 in. (62 cm)
Diameter:	5 in. (12.7 cm)
Weight	
Main Body:	20 lb (9 kg)
Collimator:	55 lb (25 kg)

¹Accuracy of the GMON3 sensor depends on adequate natural background radiation at the site.



The GMON3 is mounted approximately 3 m above the ground. If snow levels may exceed 3 m, then the GMON3 should be mounted higher than the maximum snow height.



The GMON3 components are shipped in a case with foam and handles for easy transport.



The collimator ships separately in a heavy-duty case

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