

snow water equivalency sensor

GMON3

Campbell Scientific (Canada) Corp.

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The **GammaMON**itor

measures and reports the snow water equivalent (SWE) by measuring the absorption of natural ground gamma radiation* through the snow cover. These natural ground gamma emissions are dependant on the mass of water between the source (the ground) and the radiation detector. The measurement area of the GMON3 is 50-100 square meters and is an excellent replacement sensor for the traditional snow pillow. The sensor is powered using 12VDC and can be easily interfaced to a datalogger; with the addition of a wireless communication option SWE values can be transmitted in real-time from remote sites.



*The GMON only monitors existing naturally occurring Gamma radiation.
No special licenses or precautions are required to install or operate the GMON3.



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Power Requirements: 11-15 VOLTS D.C.
Power Consumption: 180 mA
Measurement Time: 24 Hours
Output Format: RS-232 (1200 to 115200 BAUD)
Measurement Range: 600 mm Maximum Water Equivalency
Accuracy¹: ±15 mm from 0 to 300 mm
±15% from 300 to 600mm

Resolution: 1 mm
Coverage Beam Angle: 60°
Operating Temperature: - 40° C to + 40° C
Maximum Cable Length: 30 meters (9600 BAUD or less)
Cable Type: 4 conductor, 2-twisted pair, 22 AWG,
Santoprene jacket

Dimensions (without shield): Length 62 cm
Diameter 12.7 cm

Weight
Main Body: 9 kg (20 lbs)
Collimator: 25 kg (55 lbs)
Total: 34 kg (75 lbs)

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Collimator and Shipping Box



GMON in Shipping Case

¹: Accuracy of the GMON3 sensor does depend on adequate natural background radiation at the site.