

GAMMA RAY MODULE (SGR)

A rugged scintillation based Gamma Ray Module designed for the toughest conditions. The module provides real time and memory storage of natural background Gamma radiation, serial communications, and a unique shock and vibration dampening system to enhance the life of the sensor. The module is designed to be fully compatible with the Negative Pulse MWD System, but may be operated independently or in conjunction with other legacy MWD systems.

Key features include:

Real time data and Memory storage
High temperature qualified (175DegC Option)
Stabilised measurement over temperature
Serial communications
Geolink system compatible
Up to 20Kpsi Pressure rating
Variable averaging
Low battery voltage detect
Fully calibrated



Negative Pulse Product Info SGR

Description		Value	Units	Comments		
Sensor Performance						
Measurement Energy Th	>50	keV				
Measurement Resolution	1.0	AAPI				
Accuracy	+/-1.5%	Over Range	Over full temperature range			
Vertical Resolution	6.0	inches	Nominal			
Mechanical						
Diameter (Housing)	LP	1.895	inches			
		48.13	mm			
	HP	2.000	inches			
Length	SGR ²	58.94	inches	Excluding coupler		
		1497.0	mm			
		63.03	inches	Including coupler (make-up)		
		1601.0	mm			
	MGR ³	45.75	inches	Excluding coupler		
		1162.0	mm			
		49.84	inches	Including coupler (make-up)		
		1266.0	mm			
		50.80	mm			
Electrical						
Operating Voltage	+14.5V	Volts	Nominal			
Power Consumption	0.3	Watts	Nominal			
Output		TTL/CMOS and PCL Interface				
Environmental						
Operating Temperature		-25 to 150 -13 to 302	∘C ∘F	(see note 1)		
Survival Temperature	-40 to 165 -40 to 329	°C °F				
Vibration	30 20	g pk g rms	50 – 1000Hz 50 – 1000Hz			
Shock	1000	g	0.5mS Half Sine			
Notes: 1.175°C option available						

2. SGR - Single Gamma Ray (Combined Battery)

3. MGR - Modular Gamma Ray (Separate Battery Module)

Contact us

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Product Support

Azimuth Oilfield Systems Ltd. provides a responsive repair, calibration and product support service. Experienced personnel are available to troubleshoot or repair equipment, and provide general product technical assistance. If you need effective sensor support for your business, then contact **support@azimuthmwd.com** for more information.

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