



RGM-35A

NEW OIL FILLED*

*PATENT PENDING

RUGGEDISED GAMMA MODULE

The RGM-35A is a new generation MWD Gamma sensor module designed for the most severe vibrations and well conditions. The unique 'oil-filled' detector design provides shock and vibration attenuation like no other module in the market. The unit provides a 'standard' pulse output for compatibility with most MWD toolstrings and a unique interface and software, allowing in-house workshop test and calibration.

In addition to the 'oil damping', elimination of elastomer optical coupling and the need for an HV transformer translates to enhanced reliability in both high temperature and high vibration wells. The RGM-35A module is qualified and tested under the extended range conditions, up to 50G rms vibration and 2000G shock.

Highlights

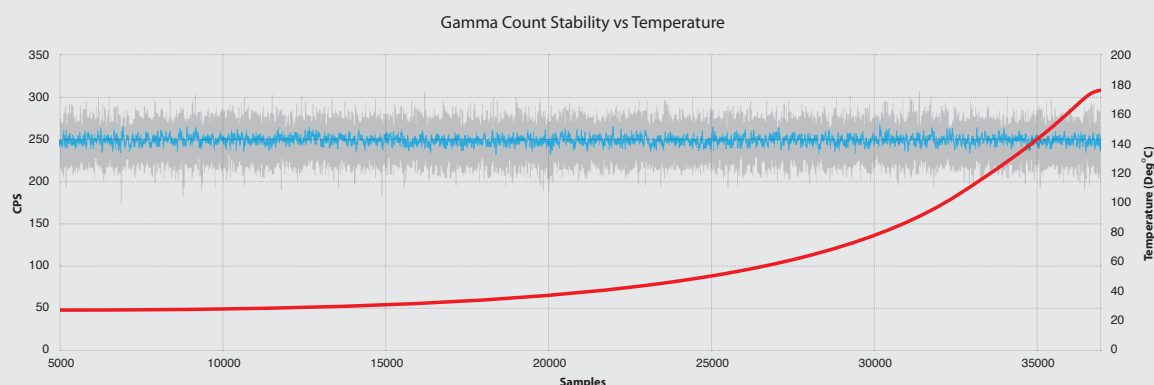
- Oil-fill suspension system*
- 50G rms Vibration rating
- Fluid optical coupling
- Eliminated HV Transformer
- Standard dimensions and wiring
- 175°C Operating Temperature

Features

- Lower power consumption
- Automated plateau testing
- HV/Threshold and Count interfaces
- Ruggedised 'oil-filled' detector
- Modular detector/electronics assemblies
- Software Application
- Excellent count accuracy over temperature

Applications

- MWD Toolstring
- Near Bit Systems
- Rotary Steerable Systems
- Wireline Applications

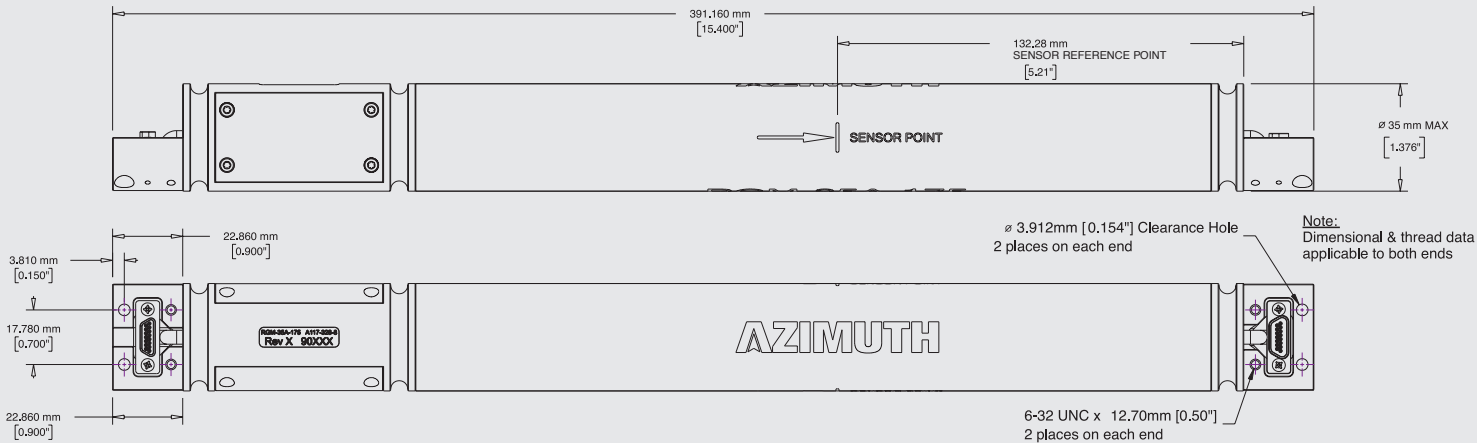


Quality, precision and reliability.

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Rev 1.0

Description		Value	Units	Comments
Electrical				
Operating Voltage		+15 to 40	Volts	
Power Consumption		0.5	Watts	Nominal (0.65W Max)
Interface		I2C		HV, V-Threshold control
Pulse Output		5uS, -ve going pulse (+5V)		
Connector Type		Upper Lower	15-Pin MDM Plug, Float 15-Pin MDM Socket, Fixed	Volts
Sensor Specification				
Measurement Accuracy		150°C 175°C	+/-5% +/-7.5%	
Scintillation Crystal		NaI(Tl)		
Heating/Cool Rate		2.5 (4.0)	C/min (F/min)	Max.
Sensitivity		0.55	CPS/API	With 1 7/8" OD PH, 1.5" ID
Shock/Vibration Isolation		Oil-fill/Spring system		Patent pending
Mechanical				
Overall Length		15.4 (391.16)	Inches (mm)	
Make-up Length		13.6 (345.5)	Inches (mm)	
Diameter		1.376 (35.0)	Inches (mm)	
Weight		2.15 (0.975)	lbs (Kg)	
Environmental				
Operating Temperature		-25 to 175	°C	
Survival Temperature		-40 to 185	°C	
Vibration Random		50	Grms	50 – 1000Hz
Shock		2000	G	0.5mS, Half-Sine



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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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