

AOM-35A ANALOGUE ORIENTATION MODULE

The AOM-35A is a premium, high accuracy 3-axis borehole surveying instrument designed for extreme downhole oilfield environments. Qualified to high temperature and drilling shock and vibration levels, the instrument is designed for reliability under the most demanding of environments.

The sensor utilises TruMag[™], a novel 3-axis flux-gate magnetometer design and high grade quartz-hinge accelerometers for excellent precision and stability. Proprietary high reliability electronics packaging and printed circuit board mounting, provide an extremely robust instrumentation assembly with industry leading performance.

Features

- Proprietary high stability/accuracy flux-gate magnetometers
- Low power consumption
- Modular assemblies for ease of maintenance
- Robust and reliable assembly
- Analogue or digital options available
- Mechanical and electrical interfaces engineered to suit application
- Compatible versions for major MWD systems

Applications

- MWD/LWD Borehole Surveying
- · Direct replacement of existing sensors
- OEM implementation in LWD systems
- Wireline directional surveying

Benefits

- Increased accuracy and stability
- Highly integrated and robust assembly
- Custom options
- · Experienced and dedicated support team
- Collaborative approach to meet customers' needs

Custom features

Azimuth sensors are designed to be modular and can be customised to meet with your requirements and application. Optional features include:

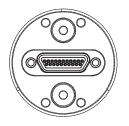
- High Temperature Specification (175°C)
- Azimuthal scanning for LWD applications
- Automatic rotation detection
- On-board shock and vibration monitoring
- Digital Interface option
- · Dimensional variants including 1.0" diameter option



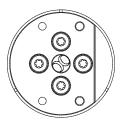
Product Specification Sheet AOM-35A

Description	Value	Units	Comments	
Sensor Performance				
Inclination Accuracy	+/-0.1	Deg		
Inclination Repeatability	+/-0.05	Deg		
TF/Rotation at >5° Inc - Accuracy	+/-0.5	Deg		
TF/Rotation at >5° Inc - Repeatability	+/-0.05	Deg		
Azimuth at >5° Inc - Accuracy	+/-1.0	Deg		
Azimuth at >5° Inc - Repeatability	+/-0.5	Deg		
Dynamic Magnetic TF	+/-5.0	Deg		
Electrical				
Operating Voltage	+/- 14 to +/- 18	Volts	Nominal (see note 4)	
Active Power Consumption	1.0 (32mA @ +/- 15V)	Watts	Maximum (see note 1)	
Accelerometer Scale Magnetometer Scale	3 2.5	V/g V/Gauss	Nominal (see note 2/3) Nominal	
ADC Resolution	24	Bit	Minimum (see note 5)	
ADC Data Acquisition Rate	2000	Hz	Maximum (see note 5)	
Environmental				
Operating Temperature	-25 to 150 -13 to 302	℃ ∘F	(see note 6)	
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. Independent Magnetometer/Accelerometer power switching 2. Option for customer specific digital interface 3. Option for customer specific Mag/Accel scales 	5. Available on digital o	 4. Option for single polarity power supply 5. Available on digital option only 6. 175°C version available 		





Upper Standard



Lower

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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