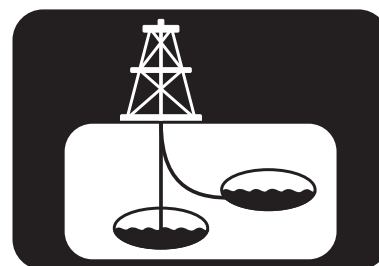
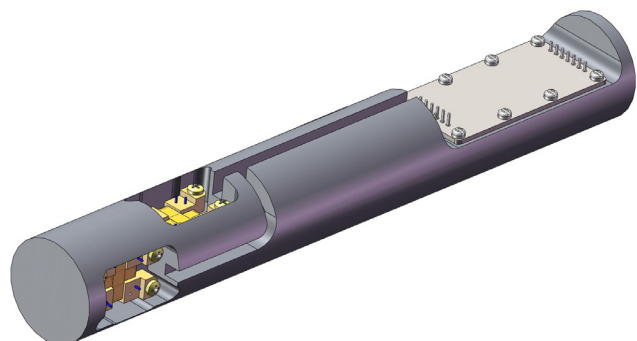


# JMP Magnetometer



## Applications

Designed for extreme downhole applications including directional and horizontal wells.

Using our extensive knowledge for spinning mass and fiber optic gyroscopes we have developed a flux gate based magnetometer. Ring core type flux gates minimize flux leakage from the core edge whilst being able to sense two axes from one flux gate reducing both size and weight. Our own advanced manufacturing facility is also utilized to assemble processing electronics using latest MCM technology to ensure long term reliability in harsh environments.

## Key features

- Survey grade fluxgate magnetometer
- Analog outputs
- Full calibration data provided
- Operating temperature to 200 °C
- Highly reliable MCM electronics
- High shock and vibration resistance
- Compact design

To support OEM integration we can offer custom chassis designs. Contact your local support team to discuss your requirement.

*An extreme product for extreme applications.*

## Technical data

*Magnetometers must only be exported in accordance with all relevant regulations.*

Environmental				
Temperature	Operating	-20 °C to +175 °C	-20 °C to +185 °C	-20 °C to +200 °C
	Survival	-40 °C to +185 °C	-40 °C to +195 °C	-40 °C to +210 °C
Vibration	Random	20 Grms, 10 Hz - 500 Hz		
Shock (1 ms, half sine)	Operating	500 G		
Electrical				
Operating voltage range		$\pm 12 V_{DC}$ to $\pm 15 V_{DC}$		
Power consumption		$\pm 35$ mA		
Mechanical				
Length		304.8 mm (12") standard *		
Diameter		34.9 mm (1-3/8") standard *		
Performance				
Bias (@ 25 °C)		$\pm 500$ nT		
Scale factor (@ 25 °C)		60 $\mu$ V/nT *		
Dynamic range		$\pm 0.1$ mT ( $\pm 1$ Gauss)		
Total field error		$\pm 100$ nT		

\* Customization available

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## More accelerometers from JAE



JA-5 series  
Φ25 mm



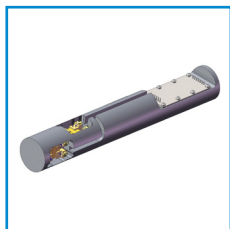
JA-25 series  
Φ19 mm



JA-35 series  
Φ15 mm

For more information on  
these products and other  
product ranges visit  
[www.jae.com/aero](http://www.jae.com/aero)

## More downhole products from JAE



Magnetometers



Directional Modules

## Document revision table

Document number	Issue	Revision date	Changes
JMP_DS	01	01/03/2016	New document

JAE reserves the right to modify specifications without prior notice.