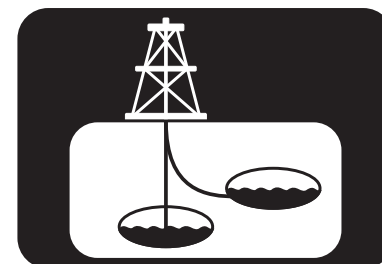
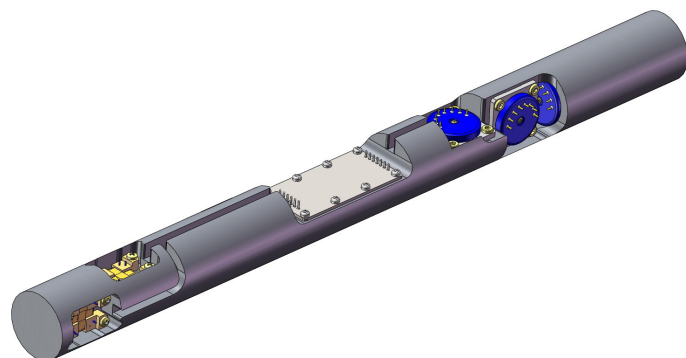


Analog Directional Module



Applications

Designed for extreme downhole applications including directional and horizontal wells.

Manufactured in-house using our own sensor technology we have created a range of directional modules for easy integration to MWD, LWD and Wireline tools. Each module is fully calibrated by JAE to ensure reliable measurements down hole. MCM technology is used extensively throughout our directional modules to ensure long term reliability in harsh environments.

An extreme product for extreme applications.

Key features

- High accuracy quartz accelerometers
- 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.

Technical data

Directional modules 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	±12 V _{DC} to ±15 V _{DC}			
Power consumption	±50 mA			
Mechanical				
Length	457.2 mm (18") standard *			
Diameter	34.9 mm (1-3/8") standard *			
Performance				
Magnetometer	Bias (@ 25 °C)	±500 nT		
	Scale factor (@ 25 °C)	60 µV/nT *		
	Dynamic range	±0.1 mT (±1 Gauss)		
Accelerometer	Bias (@ 25 °C)	±15 mG		
	Scale factor (@ 25 °C)	3 mA/G (voltage out available)		

* Customization available

1 G = 9.80665 m/s²

Contact information

North and South America

JAE Electronics, Inc.
1100 W. Park One Drive
Sugar Land
TX 77478
United States

T: +1 281 325 5760
E: support.aerospace@jae.com

Europe

JAE Europe, Ltd.
200 Fowler Avenue
Farnborough Business Park
Hampshire
GU14 7JP
United Kingdom

T: +44 1252 55 11 00
E: support.aerospace@jae.co.uk

Japan and Rest of World

Japan Aviation Electronics
Industry, Ltd.
1-19, Aobadai 3-chome
Meguro-ku
Tokyo 153-8539
Japan

T: +81 3 3780 2925
E: aeroinfo@jae.co.jp

More accelerometers from JAE



JA-5 series
Φ25 mm



JA-25 series
Φ19 mm



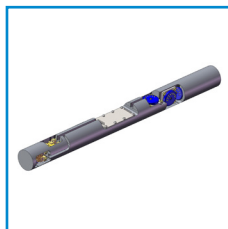
JA-35 series
Φ15 mm

For more information on
these products and other
product ranges visit
www.jae.com/aero

More downhole products from JAE



Magnetometers



Directional Modules

Document revision table

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

JAE reserves the right to modify specifications without prior notice.