



# Compass Directional Guidance, Inc.

*Your Source for Reliable & Modular MWD Technology Systems*

14427 Interdrive West, Houston, TX 77032 • Ph. 281-442-7484 • Fax 832-230-2145 • www.compass-mwd.com

TECHNICAL DATA SHEET

## Directional Module

Compass utilizes sensor technology to provide a digitized output directional measurement solution. The sensor is designed to allow direct connection to a microprocessor based data acquisition system via dedicated serial interface connections.

### Directional Module Specifications

<b>Inclination</b>	± 0.10 degrees, 3 sigma
<b>Azimuth</b>	± 0.25 degrees, 3 sigma
<b>Tool Face Accuracy</b>	± 1.0 degrees
<b>Max Temperature</b>	175° C (350° F) (150° C by request)
<b>Max Hydrostatic Pressure</b>	20,000 PSI (137.9 MPa)
<b>Operating Voltage</b>	18-32 V
<b>Nominal Current</b>	12 mA
<b>Shock</b>	1,000 g / 0.5 millisecond
<b>Vibration</b>	25g RMS 30-500 Hz Random
	20g all axes



### Description

The Directional Module consists of three axis magnetometer, three single axis accelerometers, and associated electronics which are mounted on a rigid one piece chassis. The power supply is designed to operate off of DC power source Lithium Battery pack.

### Features

- Consumes minimal power, meeting the downhole environment requirements
- Calibration data is provided with each unit