



Advanced Seismic Instrumentation & Research

ABB

P/N 100015



MidLine Broadband optical borehole accelerometer

The **ABB** is our Broadband 3-component accelerometer with optical interferometer sensors for use in low noise environments. It can be installed in 76 mm (or larger) boreholes with tilts up to 15°



Features

- > rugged optical sensors w/ high shock tolerance
- > active sensors with low power consumption
- > high tilt tolerance of up to 15°
- > for permanent or temporary installations

Sensor Parameters

Passband (± 3 dB)	0.008 (125 sec) - 1200 Hz
Flat response to acceleration (± 1 dB)	0.02 (50 sec) - 300 Hz
Dynamic Range	172 dB
Clip Level	± 0.5 g
Depth Range	0 - 1500 m
Distortion	< 0.03 %
Max V out	60 V pk-pk
Shock Tolerance	> 1500 g
Supply Voltage (Min)	11 V DC
Power Consumption	140 mW for 3 components
Operating Temperature	-35 to +85 °C
Sensitivity	60 V/g
Sensor Type	3-C optical interferometer
Tilt Tolerance	15°

Sonde Dimensions

Height	890 mm
Outer Diameter	61 mm
Weight	8 kg

Cable

Delivered standard with 4 twisted shielded pairs, 400 kg Kevlar core, non-armored.
Can be supplied with cable to meet customer specified requirements and length.