

AC-23-DH Downhole Accelerometer

Features

- Excellent temperature stability
- Bandwidth: 0.2 Hz to 50 Hz
- Dynamic range: >96dB @ 1 g FS
- Very lightweight
- Packaging and mounting options available
- Same basic specification as AC-23



Outline

DESCRIPTION

The **AC-23-DH** sensor package is a triaxial accelerometer designed for borehole applications regarding STRONG-MOTION earthquake survey and monitoring. Sensor is based on a geophone transducer with electronic corrector as in the AC-23 surface sensor (see separate spec.). This type of sensor require a very few maintenance and has very low aging drift. All tests and recalibrations of the sensor could be executed from the surface.

Full scale can be field selected by user with jumpers in the range of 0.1, 0.2, 0.5 or 1 g. The frequency response is 0.2 to 50 Hz.. The **AC-23-DH** sensor is compatible with all **GeoSIG** recorder.



figure 1



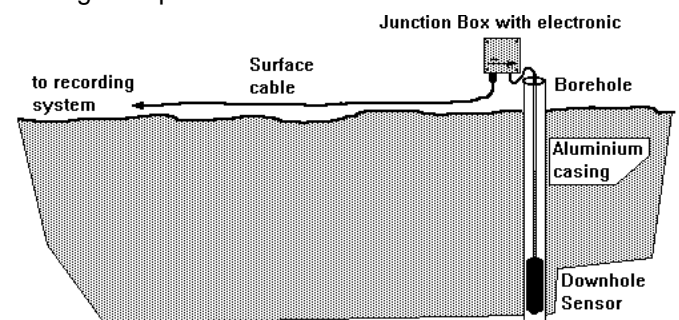
figure 2

SENSOR

Axis	Triaxial orthogonal package
Surge protection	All pins are protected by Transzorb™.
Cable	6 shielded twisted pairs., shielded, heavy jacket (lease specify length).
Power supply	±12 V _{DC} @ 10 mA

HOUSING

Mounting	Guide wheels (fig1) for 3" inclinometer casing (fig2)
Material	Aluminium
Dimensions	50 mm diameter x 190 mm
Weight	About 1.5 kg
Waterproof	IP68 class, 100 m depth
Operating temperature	-20°C to +60°C
Storage temperature	-30°C to +90°C



Specifications subject to change

Copyright © GeoSIG Ltd, 12.12.2001/L_AC-23-DH.doc