



GFA

3D borehole geophone



GFA

Borehole 3D Geophone Mod. GFA, available with **50** or **100m** cable, is supplied with an anodised aluminium probe with **3 high-sensitivity sensor elements**, oriented according to a triad of orthogonal Cartesian axes **XYZ** (nat.freq.10 Hz - 1 vertical sensor and 2 horizontal sensors). Lightweight and easy to transport, it is suitable for use on-site and easy to maintain. Supplied with a **cleat assembly** to sustain its weight at the requested depth (GFA cable is graduated in meters), this borehole geophone has a **pneumatic-mechanical clamping system** with lateral lever and spacer block. In the presence of drilling fluid, the probe can be weighed down with the interchangeable nose piece included.





HOW IT WORKS?

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Simply **connect the pump to the GFA panel** to operate: pumping air at a pressure of 2-3 bar, you will achieve excellent sensor coupling to the borehole wall (diameter between 50 and 110mm for use with the standard spacer).

Moreover, **two GFA units can be connected one under the other** by means of a special spacer accessory (see "Standard Test Methods for Downhole Seismic Testing" - ASTM D7400-08)





METHODS

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- **DOWNHOLE**
(ASTM D7400-08)
- **CROSSHOLE**
(ASTM D4428 - requires CHE borehole energizer)
- **VS30**

GFA STANDARD EQUIPMENT INCLUDES:

- **Cable reel with probe**
(GFA-50 with 50m cable,
GFA-100 with 100m cable)
- **Nose piece for drilling muds**
- **Manual Pump**
- **Cleat Assembly**
- **Connecting cable for seismograph**

OPTIONAL ACCESSORY

- **Spacer accessory to connect two GFA units**



**TECHNICAL
SPECIFICATIONS**
GFA

Number of geophones	3 geophones with nat.freq. 10Hz+/-5% (1 vert.+ 2 horiz.), high sensitivity (100V/m/sec +/-5%)
Cable length	50m or 100m, graduation in meters, mounted on cable reel with probe support
Probe dimensions	Ø51mm, length 570mm (anodised aluminium case)
Borehole diameter	Min. 55mm, max. 110mm (with standard spacer block; larger diameters upon request)
Cable reel dimensions	540x400x250mm
Weight	GFA-50: <12kg; GFA-100: <17kg
Seismograph connection	Standard: Cannon type NK2721C (GEA24, 16SN-U-P) or Souriau (GEA3, Anteo), Other adapters available upon request

Specifications subject to change without notice



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