

SS-DH-5C downhole geophone





The SSDH sensors is extremely practical with its electric simple action switch for locking and unlocking the sensor to the borehole wall.

Four LED indicators on the control panel show the status of equipment, battery, water ingress, locking and unlocking.

Use of four horizontal sensors guarantees the readability of the first breaks of the SH waves in any sensor orientation inside hole.

Geophone outputs can be read from any brand of digitizer.

The integrated lead-acid battery (commercial offthe-shelf type) makes the system more practical and with less cables around.

The locking piston is also equipped with a specific breaking point that helps to recovery the unit if in case it jams inside the hole.

Movement of piston is limited in force with an electronic torque control.



Note! The probe is detachable from the cable

SS-DH sensor is a geophysical device designed to measure vibrations in boreholes for DownHole, UpHole and CrossHole surveys.

Made from stainless steel, with detachable probe, it is slim, robust and rugged.

It can be equipped with 4.5, 8 or 10Hz geophone sensors. It can be used with any exploration seismograph and, naturally, with all our seismographs, especially the pore mitter system.

Applications

The SS-DH sensors is designed mainly to measure soil properties as per Vs30 calculation.

Downhole

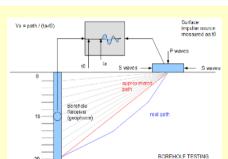
Injecting energy from the surface you can measure the travel time of P waves and SH waves and then calculate the elasto-mechanic properties of soil.

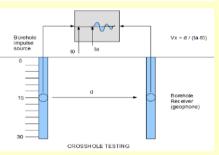
Crosshole

Using a proper borehole source of mechanical pulses to be put at the same depth of receiver and/or measuring wit a variatey of depths for both direct measuremen of P wave speed and S wave speed can be accurately accomplished.

Some customization can be applied to the sensor for example connecting rods to use 2 sensors as a double

body sensors to measure the differential time arrivals.





Technical Features

Number of channels: 5 standard (optional 3 or customized)
Configuration: 2 vertical, horizontal at 0°, 45°, 90°, 135°

Eigen frequency: 10Hz (+/-5%) (other upon request)

Sensitivity: 28V/m/s

Dimensions: 1080x45mm (sensor body)

Min – Max diameter: 63.5mm – 80mm

Sensor weight: 2.5kg

Total weight: 8 kg (50 meters cable)

Cable length: standard 50 meters

Connector: MIL-C-56842 series 10-pole

Locking system: electric motor
Power supply: 12V lead-acid battery

Conformity declaration: CE

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