

# Downhole P&S Sonde

## APPLICATIONS

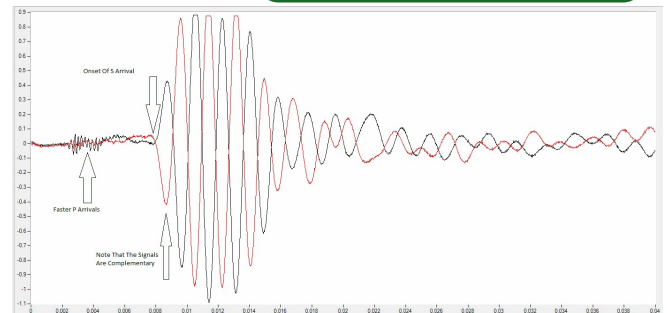
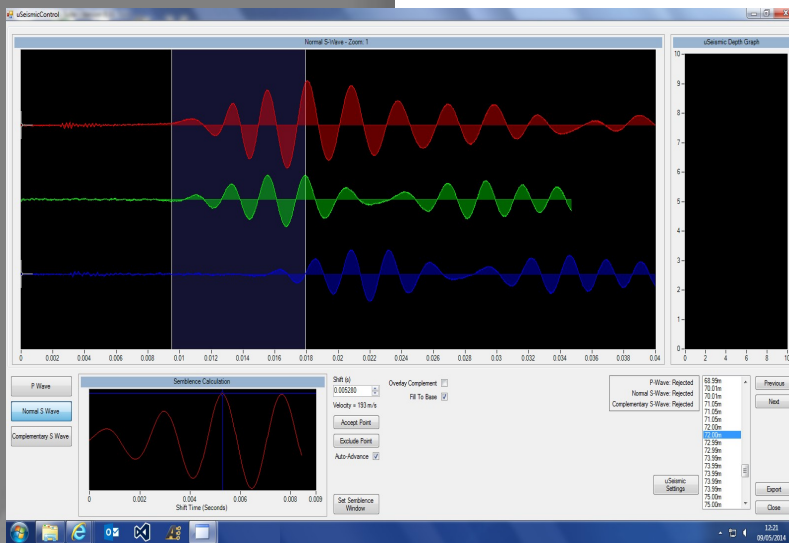
- Site investigations and ground engineering
- Compressional and shear wave velocity measurements

The Geovista Downhole P&S (DPS) probe is used to log formation compressional (P) and shear (S) wave propagation velocities. It is particularly effective in "slow" formations where shear velocity is lower than borehole-fluid velocity.

Formation P & S wave slowness are among the parameters required to estimate rock properties at the site investigation stage, be it for foundations or civil engineering projects such as dams. The Geovista DPS probe comes with one transmitter and two receivers. The transmitter is designed to excite a dispersive flexural mode which propagates at a velocity close to that of the formation shear velocity. It is currently the only technique available in slow formations where shear velocity is lower than borehole fluid velocity. This method does not require clamping to achieve acoustic coupling.

## KEY FEATURES

- Digital probe
- Variable spacing
- No clamping required for acoustic coupling



## SPECIFICATIONS

Weight (kg)  
 Length (m)  
 Diameter (mm)  
 TX1-RX1 spacing  
 TX1-RX2 spacing  
 Sampling Density  
 Resolution  
 Sampling interval  
 Data file format  
 Max. Pressure (MPa)  
 Borehole Condition  
 Accessories

## DPS Sonde

14.0  
 4.85 / 5.85  
 51  
 Typically 200 / 300 cm depending on length of first isolator section (other lengths available).  
 Typically 300 / 400 cm depending on length of first isolator section (other lengths available).  
 2000 samples/wave  
 16 bits  
 Selectable 2.5, 5, 10, 20 or 40 mS  
 SEG2  
 5  
 Water or mud filled Open hole  
 Stand offs  
 P&S Simulator Test Jig