



EXPLANATION SHEET

SDMT FOR S-WAVES & P-WAVES

23 February 2021

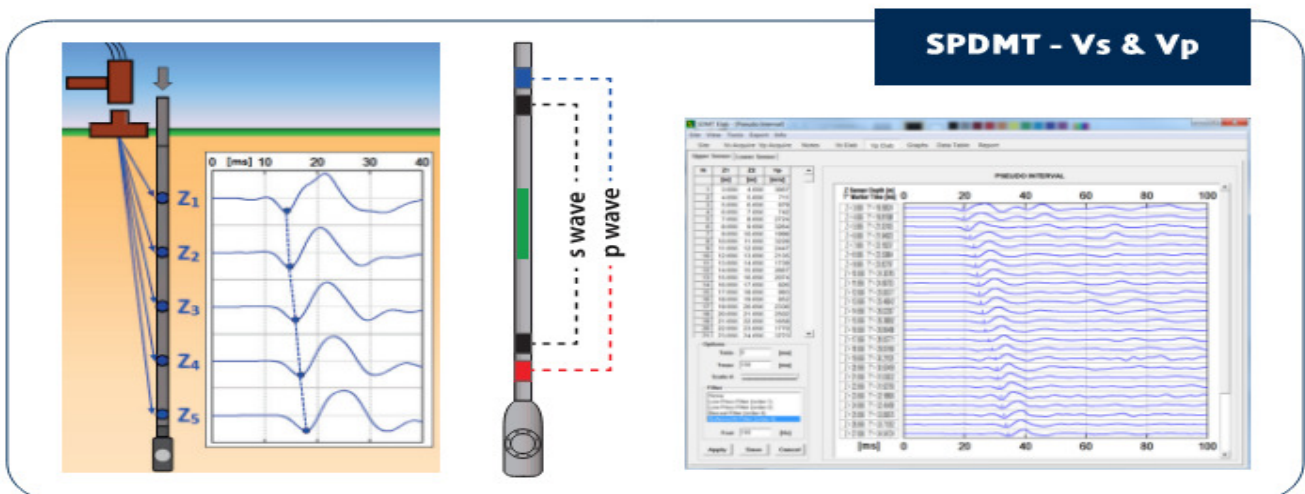
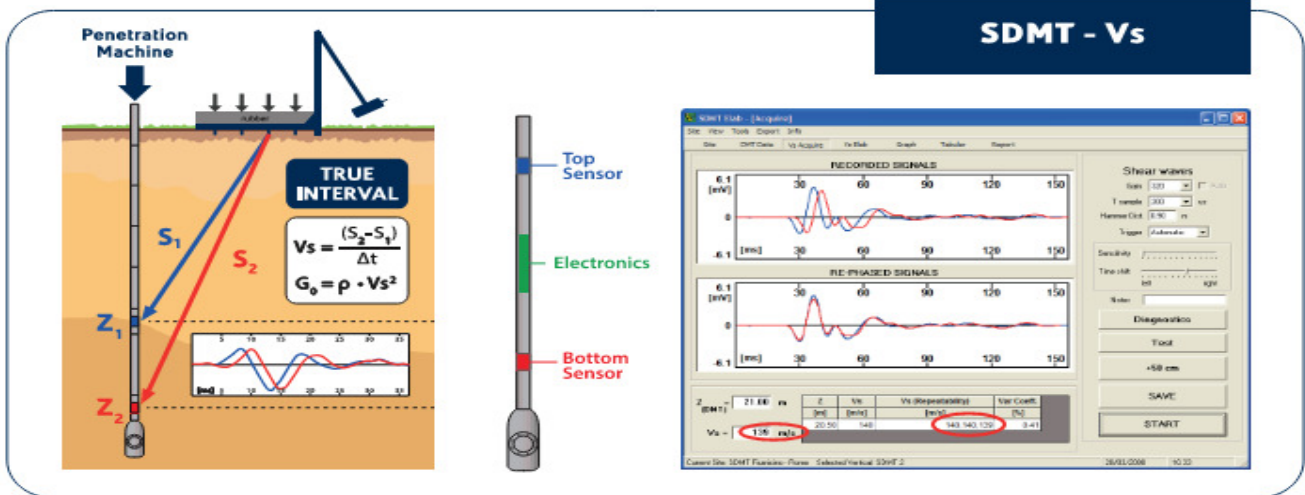
The Seismic Dilatometer (**SDMT**) is a probe for measuring the **shear wave velocity V_s** . The test provides **accurate and repeatable results** with a rapid, reliable and simple technology which does not require any geophysical background. The True Interval configuration is implemented with two sensors spaced 0.5 m. The electronic board provides very accurate AD signal conversion and uses digital data transmission. The high quality of the acquired seismograms

Main Applications

- Max Shear Modulus G_0
- In situ G-gamma decay curve
- Sample Quality Assessment
- Local Seismic Response
- Soil category (V_{s30})

enables **real time** shear wave velocity evaluation.

The V_s profiles are available up to the current test depth. Accelerometers monitor the inclination of the SDMT probe during penetration. The SPDMT is an enhanced version of the Seismic Dilatometer containing two additional sensors for recording **compression P waves**.



For completeness see the separate Explanation Sheets regarding the DMT and Medusa DMT systems also operated by IGS.