



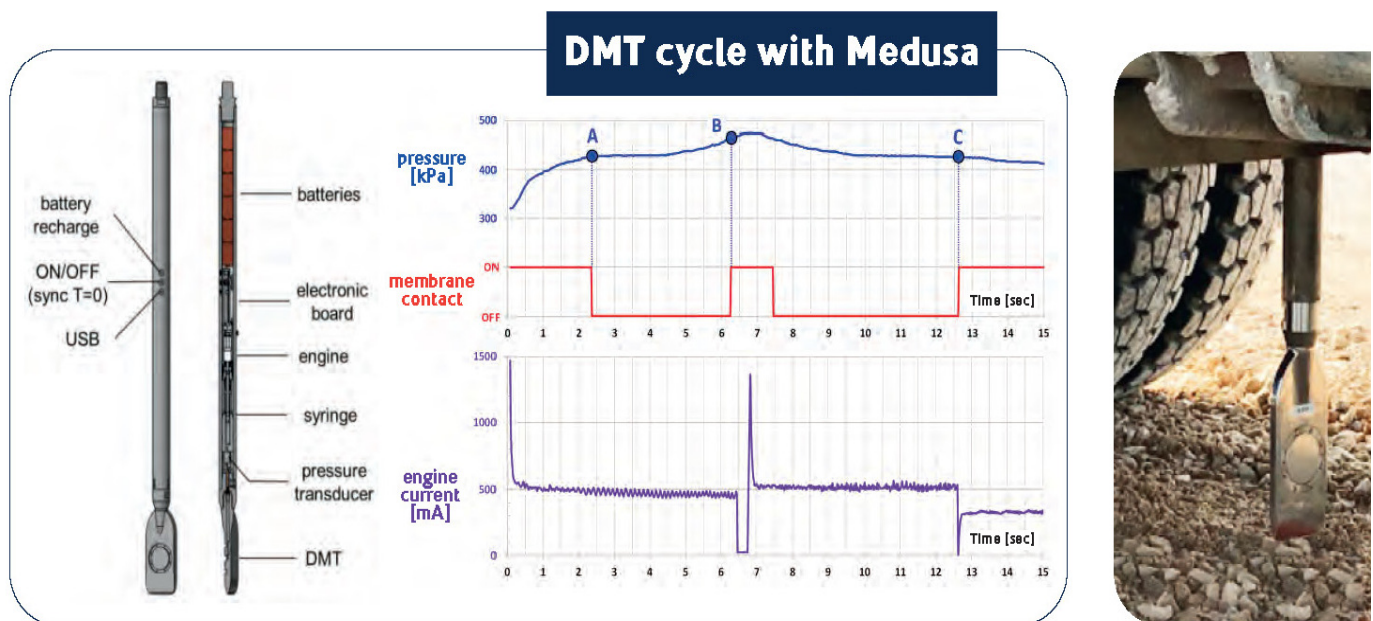
EXPLANATION SHEET

MEDUSA DMT

23 February 2021

Medusa DMT

The Medusa DMT is an **automated dilatometer** probe able to autonomously perform the test. An electronic board, powered with rechargeable batteries, activates a **motorized syringe** for **expanding hydraulically** the DMT membrane. The blade has the same dimensions of the original standard flat plate dilatometer. The device may operate **without any cable** (MEMO mode) or with an electric cable for **real time results**.



IGS is very experienced with the (mechanical) DMT and Seismic DMT systems described in separate sheets. The Medusa is new and improved technology and offers some significant advantages over the normal mechanical DMT:

- Almost completely removes any operator influence/bias over the test data. Is more responsive/repeatable, particularly in soft soils.
- Enables short or long duration dissipation tests automatically. Dissipation tests are possible but labour-intensive using the mechanical DMT equipment, but are essentially automated and thus able to be made “normal practice” using the Medusa.

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