GEOLOGICAL, GEOPHYSICAL, GEOTECHNICAL SERVICES AND INSTRUMENTS

Pressuremeter

Elastmeter-2

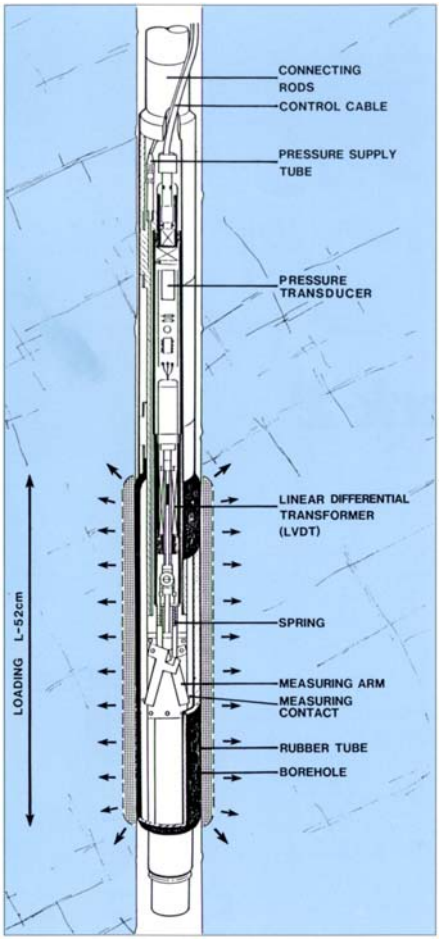
HQ probe (Model-4180)

＜Abstract＞

It is indispensable for designing the foundation for the construction of large scale structures such as buildings, dams or bridges to grasp the characteristics of deformation under a certain stress. The Elastmeter-2 is new version of lateral load tester capable of testing wide range ground from soft rock to hard rock. Highly accurate transducers and related electrical circuitry are built in the probe to improve the measurement accuracy, reliability and operability. With the two arms stretched inside the rubber packer, the system converts the displacement with the inner radius of the rubber packer into that representing the deformation with the borehole diameter.

＜Features＞

- Both pressure and displacement are measured directly in the probe using electrical transducers.
- Mechanical arm is used for the measurement of displacement making maintenance easier.
- Applied pressure is measured by precise semi-conductor transducer in the probe.



＜Specifications＞

Elastmeter HQ Probe (Model-4180)

Deformation detection method	: Caliper arm method (to measure the inside diameter of rubber packer)
Max. Pressurization	: 20MPa
Outside diameter	: 62mm
Measurement distance length	: 520mm
Packers	: BX, NX size

＜Accessories＞

High-pressure tubing (Model-4153)

Outer sheath	: Neoprene rubber
Inner pipe	: Nylon tube (braid reinforced)
Working pressure	: 20 MPa max
Outside diameter	: 8mm
Length	: 100m (standard)

Control cable (Model 04181-2001)

Outer sheath	: Polyurethane (black colored)
Outside diameter	: 5mm (4-cored)
Length	: 100m (standard)
Tensile strength	: 15 N