GEOLOGICAL, GEOPHYSICAL, GEOTECHNICAL SERVICES AND INSTRUMENTS

OYO

Elastmeter Sonde for HQ-size Borehole (ϕ 98 mm)

4-inch Elast Sonde

Elastmeter HQ Sonde

4-inch Elast Sonde (Model-4203)

< Abstract >

Many sizes of borehole have been adopted for geotechnical investigations to obtain ground properties, such as strength and dynamic characteristics, by in-situ tests. OYO has provided the sonde for a pressuremeter test in the rock, called Elastmeter HQ Sonde (Model-4180), and it can be used for BQ (φ60 mm) or NQ (φ75.7 mm) borehole. In the civil engineering field, HQ (φ98 mm) borehole is frequently used at the investigations to ensure the drilling quality and a seize-upped sonde of the pressuremeter test is required.

The "4-inch Elast Sonde" fulfills the above requirement and fits in the HQ borehole. It contributes to saving work volume, time and cost.

< Feature >

● The Elast Logger-3i (Model-4302) can be smoothly used / connected for the 4-inch Elast Sonde as the data acquisition instruments.

● Same mechanism of the Elastmeter HQ Sonde is applied.

● 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.

< Specification >

4-Inch Elast Sonde

Deformation Detection Method	: Caliper Arm Method
Max. Pressurization	: 20 MPa
Deformation Range	: φ100 to 115 mm
Diameter	: φ96 mm
Weight	: 30 kg

Image

< Accessories >

Calibration pipe	: φ 100 mm (04180-4101)
	: φ 110 mm (04180-4102)
Packer Tube for 4-inch, Hard	

< System Diagram >

Elastmeter 2
Control Cable

Ground cable

Power Cable

Battery 12V

Ground

High pressure Water Tube

Pressure Gauge

4-inch Elast Sonde

High Pressure Hand Pump

Please note specifications are subject to change without notice for the

■ Your representative