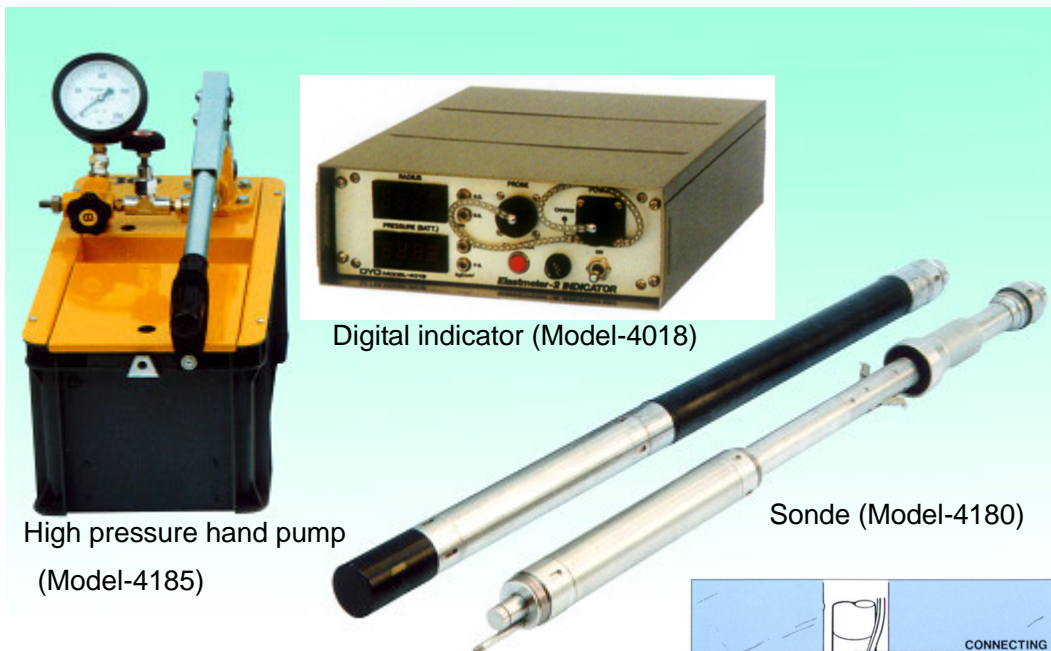


## Pressuremeter

## Elastmeter-2



High pressure hand pump  
(Model-4185)

Digital indicator (Model-4018)

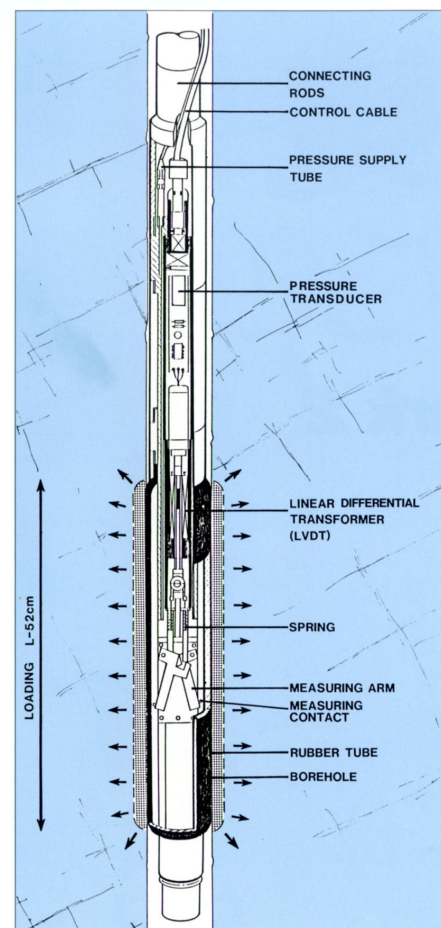
Sonde (Model-4180)

## &lt;Abstract&gt;

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.

## &lt;Features&gt;

- 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 Sonde (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

### Digital indicator for Elastmeter2 (Model-4018)

Display : Pressure, displacement to be displayed in digital values  
(3 1/2 digits)  
Displacement display ( $\Delta R_n$ ) :  $\pm 19.99$ mm  
Pressure display (P) :  $\pm 19.99$ MPa  
Power supply : External power supply DC12V ( $\pm 10\%$ )  
Built-in battery 12V 4.5 A/h  
Voltage to charge the Built-in battery AC100V~220V  
Operating temperature range : 0 ~50°C  
Outer dimensions : 220(W) x 80(H) x 306(D) mm  
Weight : 5.5kg

### High pressure hand pump (Model-4185)

Pressure : Max. 20MPa  
Unit exhaust quantity : 5.0cc  
Tank capacity : 18 liters  
Pressure gage : 20 MPa  
Outer dimensions : 290(w) x 610(L) x 375(H) mm  
Weight (Dry weight) : 8.0kg

### 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

**OYO**  
oyo corporation



JQA-2772

Please note specifications are subject to change without notice for the improvement.

● Instruments & Solutions Division  
43 Miyukigaoka, Tsukuba, Ibaraki, 305-0841 Japan  
Phone: +81-(0)298-51-5078, Fax: +81-(0)298-51-7290  
e-mail: seihin@oyo.jp

● Head Office  
7 Kanda-Mitoshiro-cho, Chiyoda-Ku, Tokyo 101-8486, JAPAN  
Phone: +81-3-5577-4501, Fax: +81-3-5577-4567

■ Your representative