

GEOLOGICAL, GEOPHYSICAL,
GEOTECHNICAL, GEOENVIRONMENT,
GEOINFORMATION SERVICES
AND INSTRUMENTS

OYO

Digital Pressuremeter

Elast Logger-3i & Elastmeter Digital Sonde



Elast Logger-3i
(Model - 4302)



Elastmeter Digital Sonde
(Model - 4301)

< Abstract >

Elast Logger-3i is an advanced digital pressuremeter capable of testing wide range ground from soft rock to hard rock in combination with Elastmeter Digital Sonde.

A series of operations can be performed from data recording of pressure and displacement to plotting of results. Mechanical information such as Young's modulus can also be obtained quickly with Panasonic Tablet.

A thermal printer is available as an extra-cost option, and it enables users to print out obtained data at a site.

< Features >

- By converting the measured value into a digital signal inside the digital sonde and transmitting it to Elast Logger 3i, the signal transmission stability is improved.
- User-friendly operating system by Panasonic Tablet controller.
- High brightness color LCD allows clear visibility even under direct sunshine.
- From the measurement of pressure to the displacement, easy and understandable displacement curves are available.
- By connecting "Digital Converting box for Elastmeter HQ sonde", Elast Logger-3i is available to connect Elastmeter HQ Sonde (Model-4180) and Control cable for Elastmeter Digital Sonde.

< Specifications >

Elast Logger-3i (Model-4302)

OS	: Windows10 Professional 64bit
Display	: 10.1 inch TFT color LCD 1920 × 1200 pixel Pressure, displacement to be displayed in digital values and stress-strain curve
Storage device	: SSD 128GB
Measurement parameters	: Pressure, displacement, elapsed time
Data storage	: SSD 128GB
Operating temperature	: -5 to +45°C
Outer dimensions (approx.)	: W 420 mm x D 335 mm x H 175 mm
Weight (approx.)	: 8 kg

Elastmeter Digital Sonde (Model-4301)

Deformation detection method	: Caliper arm method (to measure the inside diameter of rubber packer tube)
Max. Pressurization	: 20 MPa (depends on a borehole and geological condition)

Control cable (for Elastmeter Digital Sonde)

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

< Accessories and Options >

- High pressure hand pump (Model-4185)
- High-pressure tubing (Model-4153)
- Calibration Pipe
- Packer tube (soft, hard)
- Thermal printer
- Battery pack
- Step-down transformer
- Digital converting box for Elastmeter HQ sonde

< Applicable borehole and pressure >

Sonde Type	Rubber packer tube	Diameter of borehole	Pressure limit (Hard packer)	Pressure limit (Soft packer)
Elastmeter Digital Sonde	60mm (BX)	Up to 70mm	20 MPa	5 MPa
		Up to 76mm	8 MPa	4 MPa
		Up to 80mm	3 MPa	1.5 MPa
	70mm (NX)	Up to 80mm	20 MPa	5 MPa
		Up to 85mm	8 MPa	4 MPa
		Up to 90mm	3 MPa	1.5 MPa



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



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