DATA SHEET

Axial-Circumferential Compression Device

Compressometer/extensometer model 55-C0221/E fitted with two high precision displacement transducers LDT type, 0.001mm x 10mm

General description

The compressometer / extensometer for static Modulus of Elasticity and Poisson's Ratio to ASTM C469 is a device for measuring the longitudinal strain and corresponding diametrical strain of dia.150x300mm (C0221/E and C0221/D) and dia.100x200 mm (C0221/F) concrete cylinders, or core, subjected to axial loading. It works by measuring the relative displacement of datum points on the cylinder surface.

The available models are:

- **55-C0221/D** fitted with two digital gauges 25x0,001 mm.
- **55-C0221/E** and **C0221/F** fitted with two high precision displacement transducers LDT type, 0,001mm x 10mm.

The models fitted with displacement transducers can be connected to a suitable data logger or, directly to our Automatic control consoles MCC or Automax Multitest which can provide cyclic loading and automatic determination of the Modulus of Elasticity.
The data logger as, for example, our mode 82-P9008, can be used with compression testers for axial deformation measurement when it's not mandatory to perform loading / unloading cycles, but only loading ramps. In this case, one of the channel of the data logger should be used for the load signal coming from an additional pressure transducer with 3 way connector fitted to the compression tester. Please get in touch with our technicians for complete information and service

NOTE:

- the model fitted with displacement transducers can be connected to our readout and control units AUTOMAX Multitest and MCC or to our multichannels datalogger
- the model fitted with digital dial gauges can download readings to a PC with a dedicated cable (see accessories).

Main features

- Ideal for axial deformation and diametrical extension measurement.
- Suitable for dia.150x300mm (6"x12") and dia.100x200mm (4"x8") cylinders.
- Easy and quick application to the specimen.
- Two different types of measuring systems are available:digital dial gauges or high precision displacement transducers LDT type.

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Standards

- ASTM C469

Specifications

55-C0221/D
Dial gauges travel: 25.4 x0.001 mm
Axial gauge length :150mm
Specimens: cylinders dia.150x300mm, 6"x12", 160mm x320 mm

55-C0221/E
Displacement transducers travel: 10mm
Axial gauge length :150mm
Specimens: cylinders dia.150x300mm, 6"x12", 160mm x320 mm

55-C0221/F
Displacement transducers travel: 10mm
Axial gauge length :100mm
Specimen: cylinders dia.100x200mm, 4"x8"

82-P9008, DATALOG 8, 8 channels stand alone multipurpose data logger

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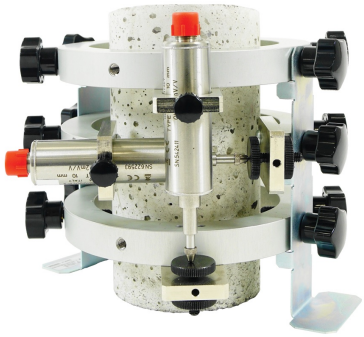
Compressometer/extensometer model 55-C0221/D fitted with two digital gauges 25x0,001 mm.



Compressometer/extensometer model 55-C0221/F fitted with two high precision displacement transducers LDT type, 0.001mm x 10mm

Products

55-C0221/D

Axial-circumferential compression device complete with digital gauge 25.4x0,001 mm with output for PC connection (special cable required)

55-C0221/E

Axial compression device for cylinder dia.150x300mm complete with two high precision LDT displacement transducer 10mm travel

55-C0221/F

Axial compression device for cylinder dia.100x200mm complete with two high precision LDT displacement transducer 10mm travel

Accessories and consumables

82-D1261/LINK

Serial cable for PC connection