

DATA SHEET

Strain Gauges



Rock sample fitted with 82-P0390 strain gauges

General description

They provide a very accurate electrical signal, strictly proportional to the strain of the specimen submitted to load application, for determining the Elastic Modulus and strength characteristics as alternative to the Compressometer-Extensometers 55-C0222/G which can be used only on samples with min dia.75mm and min height 160mm. They can be applied to the specimen surface by a special Adhesive-Catalyst agent and other accessories all included in the 82-P0399/C Strain gauge application kit.

Up to 4 strain gauges $\frac{1}{4}$ bridge, and up to 8 $\frac{1}{2}$ bridge, can be directly connected by one or two interfaces 82-P0398 to our automatic control consoles MCC or Automax Multitest which are suitable for cyclic loading and automatic determination of the Modulus of Elasticity.

Strain gauges can also be connected, by one or two interfaces 82-P0398, to a suitable data logger as, for example, our model 82-P9008, when the load application on the specimen is performed with Automatic compression testers as, for example the AUTOMAX PRO and PILOT PRO models. In this case, one of the channels of the Datalog 82-P9008 should be used for the load signal coming from an additional pressure transducer with selecting valve fitted to the compression tester.

Please get in touch with our technicians for complete information and service.

Standards

- ASTM D5407
- ASTM C469
- ISO 6784
- DIN 1048
- UNI 6556
- BS 1881:121
- EN 13412
- EN 12390-13

Specifications

Models 82-	P0390	P0391	P0392	P0393	P0396
Grid width mm	0,9	1,2	2,3	1	1
Gauge length mm	10	20	30	60	120

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Resistance ohm	120	120	120	120	120
Bridge	¼	¼	¼	¼	¼
No. of gauges per package	10	10	10	10	10

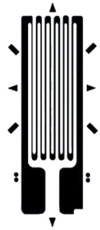


Diagram of a strain gauge

Diagram of a strain gauge

Products

82-P0396

Strain gauge 120mm gauge length. (pack of 10)

82-P0390

Strain gauge 9,53 mm gauge length. (pack of 10)

82-P0391

Strain gauge 20 mm gauge length. (pack of 10)

82-P0392

Strain gauge 30 mm gauge length. (pack of 10)

82-P0393

Strain gauge 60 mm gauge length. (pack of 10)

Accessories and consumables

82-P0398

Compensation device for up to 4 Wheatstone bridges with 1/4 or 1/2 bridge setup

82-P0399/C

Strain gauge application kit including: conditioner, neutralizer, acetone, tweezer, adhesive with catalyst agent, 100 m of bipolar cable, solder, soldering iron, scalpels, scissors, duct tape, sellotape, sandpaper and carrying case.

82-P0399/P22

Bonding and catalyst agent to glue the strain gauges

82-P0399/1

Connecting terminals. 50 pairs sheet