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DATA SHEET

Automatic Motorized Pull-Off Bond Strength Tester

Automatic motorized Pull-Off / Bond strength tester model 58-C0215/AUTO: complete kit

General description

This apparatus is mainly used to evaluate the bond strength of two layers of concrete/mortar or the adhesive strength of surface coatings on its support (e.g. cement plaster, lime, wall plaster etc.).
It is fitted with a high resolution load cell and houses a built-in motorized hydraulic actuator automatically controlled by the advanced electronics and closed loop algorithms. The 16 kN loading capacity, the high resolution load cell and the great stability of the electronics, assure a wide working range ideal for a vast number of materials and applications.
The ultra-compact shape and the lightweight feature make this instrument particularly suitable not only for laboratory use but also for uneasy on site applications such as large walls and ceilings.
It is supplied complete with: aluminium test discs 20 and 50 mm dia., screw bolt, traceable calibration certificate and carrying case.
A wide range of accessories, such as adhesive compound, disks with various shape and dimensions, drill bits are also available.

Main features

- **Ultra-compact and portable equipment ideal for use in and off site**
- **Motorized in-built hydraulic actuator**
- **High resolution graphic display 128x80 pixels and 5 keys membrane keyboard**
- **PID closed-loop control of the load rate**
- **Graphic display of actual load, load rate, peak value, strength**
- **Battery operated: internal rechargeable LiPo type battery 7.4 V, 2200 mAh.**
- **Dial Indicator of ram position allowing a quick estimation of the brittle properties of the test sample**
- **Supplied complete with traceable calibration certificate**

Standards

- EN 1015-12
- EN 1348
- EN 1542
- EN 13963
- EN 14496
- EN 12004-2

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- ISO 13007-2
- ISO 4624
- ASTM D4541
- ASTM C1583
- ASTM D7522
- ASTM D7234

Specifications

Max. load capacity: 16 kN

Load measurement with high accuracy strain gauge load cell

Effective resolution: +/- 262000 divisions, corresponding to to 0,0001 kN (0.1N)

Working range: 0.16 kN to 16 kN

Accuracy: Class 1 starting from 1 % of the full scale

High resolution graphic display 128x80 pixels and 5 keys membrane keyboard

Battery operated: internal rechargeable LiPo type battery 7.4 V, 2200 mAh. External power adaptor 110-230 V, 50-60 Hz, 1 ph.

Serial port RS232 for PC connection

Data downloading to PC with D-Terminal software (82-Q0800/TRM)

Graphic display of actual load, load rate, peak value, strength

PID closed-loop control of the load rate

Tester dimensions (lxdxh): 220x150x240 mm approx.

Over all dimensions: 340x240x250 mm approx.

Weight (tester only): 4 kg

Overall weight: 5.7 kg

Automatic motorized Pull-Off / Bond strength tester model 58-C0215/AUTO with metal disk

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Automatic motorized Pull-Off / Bond strength tester model 58-C0215/AUTO: detail of the main panel

Automatic motorized Pull-Off / Bond strength tester model 58-C0215/AUTO: detail of the display

Products

58-C0215/AUTO

Automatic motorized Pull-Off / Bond strength tester. 16 kN cap. Battery operated.

Accessories and consumables

58-C0215/5

Aluminium test disc 50mm dia x 20mm thickness
82-Q0800/TRM

D-Terminal software for the capture and storing oftesting data ASCII format for PC downloading by the serial port RS232. W98 compatible and higher.
58-C0215/T2

Serial cable for digital pull-off tester 58-C0215
58-C0215/1

Drill bit 50 mm dia
58-C0215/12

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Metal ring with truncated cone profile to EN 1015-12, 5.2
58-C0215/13

Fast curing bicomponent adhesive for pull-off tester 58-C0215/T. 2x15ml binder and 2x15ml hardener (4 vials)
58-C0215/2

Tungsten carbide bit 20 mm dia.
58-C0215/3

Stainless steel test disc 50 mm dia x 20 mm thickness (conforming to EN1015-12 and EN1542)
58-C0215/4

Test square plate 50 x 50 mm for pull off test to EN 1348
58-C0215/8
Aluminium test disc 20 mm dia.