

GENERAL

Load measurement and calibration apparatus  
Verification of force transfer (continued)

STRAIN GAUGED COLUMN

■ 82-E0105/1

Strain gauged column/load cell  
3000 kN cap.

To test the self-alignment, alignment, restraint of movement of the upper plate and the accuracy of force indication of compression testers. The device consists of a 3000 kN cap. strain gauged column, 100 mm dia., 200 mm high with hardness and tolerances conforming to the Standard. Supplied complete with auxiliary platen and spacers for easy and precise placing of the column either centrally or 6 mm displaced from the centre. The column can also be used as a load cell 3000 kN cap. to test the accuracy of force indication. The performance and accuracy are identical to those of the HP High Performance load cells. Supplied complete with carrying case. It has to be used with a suitable digital tester (e.g. our model 82-P0804/E).

kg Weight approx.: 17.5 kg

DIGITAL INSTRUMENTATION

■ 82-P0804/E

Force transfer digital tester.  
230 V, 50-60 Hz, 1 ph.

This unit when connected to the 82-E0105/1 strain gauged column, to a PC and printer using the specific software 82-P0804/E1 and 82-P0804/E2, provides completely automatic data acquisition, processing and print of the verification test certificates concerning either the accuracy of force indication or the other force transfer verifications. During operation, acquired data are displayed on the graphic screen of the tester and then downloaded by the serial port to the PC and printer. The system can also be used directly connected to a simple 24-column printer (e.g. our model 82-P0172) or to download the test results for further processing using programs developed by the user. Supplied complete with carrying case.

Specifications

- No. of channels: 4
- Resolution: with strain gauged column: 1/128.000; with load cells: 1/256.000
- Large permanent memory to store data and test results
- Graphic display 240x128 pixel
- kg Dimensions: 250x220x150 mm
- kg Weight approx.: 2 kg

- One cell only 3000 kN cap. to test either the force accuracy and force transfer
- Also connectable to other load cells
- It can be completed with official calibration certificate issued by a European accreditation laboratory
- Suitable for calibration of Class 1 compression testers



82-P0804/E with 82-E0105/1 Strain gauged column and 82-P0172 24-column printer that can be used to download the test results for further processing using programs developed by the user. The strain-gauged column is supplied complete with auxiliary platen and spacers for an easy and precise placing of the column either centrally or 6 mm displaced from the centre. It can be used as a 3000 kN load cell for force verification.



Final Force Transfer Verification certificate. The complete document includes other 3 certificates concerning upper plate self-alignment, alignment and restraint of movement.

Accessories

- 82-P0172 24-column serial printer. 230 V, 50-60 Hz, 1 ph.
- 82-P0804/E1 Testing software for the automatic data acquisition and processing of the plate self-alignment and restraint of movement verification (stability) of compression testers
- 82-P0804/E2 Testing software for the automatic data acquisition and processing of force measurements for the calibration verification of compression testers
- 82-P0804/E3 Force transfer verification MS Excel spreadsheet
- 82-P0804/E4 Force calibration verification MS Excel spreadsheet