

DIGITAL ADHESION TESTER

PCE-DAT 500

- » various measuring head sizes selectable
- » mini USB port
- » memory in CSV file format
- » battery operated
- » automatic power off



The digital adhesion tester is a portable, hand-operated device that measures the force required to pull a specific test diameter of coating from a substrate using hydraulic force. The measured force is shown on the LCD and represents the adhesion strength of the coating to the substrate. This device is used to evaluate the adhesion (peel strength) of a coating by determining the maximum tensile force it can withstand before it peels off. Breakage points, which appear as cracks along the weakest layer in the system of carrier, adhesive, coating layers and substrate, are visualised by the digital adhesion tester.

Equipped with a hand-operated hydraulic pump, our digital adhesion tester enables precise and repeatable application of the required tensile force. Thanks to a selection of different dolly sizes, the device can be flexibly adapted to different test requirements, making it particularly versatile.

In addition, the digital adhesion tester offers a mini-USB interface for easy transfer of measurement data to external devices. The data can be saved in practical CSV format, which enables easy processing and analysis. You can find some additional as well as replacement measuring heads as well as the right base for your needs in the accessories.

Specification

Pressure

Measurement range up to 0,4 ... 80 MPa

Resolution 0,01 MPa

Accuracy $\pm 1\%$ FS

Pressure

Measurement range up to 25 ... 11600 psi

Resolution 1 psi

Accuracy $\pm 1\%$ FS

General technical data

Units MPa, psi

Display type LCD

Display size 2,36 Inch

Storage medium Internal memory

Storage capacity 16 MB

Interface Mini-USB

Standard(s) GB/T 5210, ASTM D4541/D7234, ISO 4624/16276-1

Automatic power-off from...to 1 ... 10 min.

Menu language English (GB), English, Chinese

Protection class (device) IP40

Power supply 100 ... 240 V AC | 50/60 Hz

Connector type Euro plug

Weight 3,25 kg

Operating conditions 0 ... 50 °C , 10 ... 90 % RH

Storage conditions 0 ... 50 °C , 10 ... 90 % RH

(Rechargeable) battery 1 x 3,7 V 18650 , Lithium-ion battery

Capacity 3400 mAh

Dimensions (L x W x H) 220 x 140 x 81 mm