

# 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	±1 % FS
Pressure	
Measurement range up to	25 ... 11600 psi
Resolution	1 psi
Accuracy	±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