

elcometer® **182 Digital Concrete Test Hammer**

**Can be used in accordance with
ISO 8045,
ASTM C805, EN 12504-2, BS 1881:202, DIN 1048, NFP18-417, UNI 9189**



Test hammers are used to determine the surface hardness of concrete and are one of the most widely used instruments in the field of non destructive testing (NDT) of concrete compressive strength. It is the quickest, simplest and least expensive method to obtain an estimate of the quality and strength of the concrete.

The digital and more advanced version of the Elcometer 181, is equipped with an electronic transducer which converts the rebound values into a reading on the digital display. It displays a range of statistics and there is a facility to download to a PC.

The software and digital display are integrated into the design of the hammer.

- Light and easy to use
- High resolution and accuracy
- Possibility to store, display and download data to PC
- Setting of test parameters and factors (age, shape, correction factors)
- Rapid and simple calibration procedure
- Selection of testing angle
- Selection of unit (N/mm², MPa, PSI, kgf/cm²)
- Automatic conversion of rebound index to equivalent compression strength
- Selection between 7 different correlation curves between rebound index and compressive strength, 2 pre-set and 5 user definable
- Statistical evaluation of test results (mean value, standard deviation, concrete strength estimation)
- Supplied with abrasive stone to prepare test surface
- Storage of up to 5000 results
- RS 232 output to PC
- Rechargeable internal battery

Technical Specifications

Impact Energy	2.207 Nm
Accuracy	Better than ± 2 Rebound Number(s) (When tested on Calibration Anvil at 80)
Resolution	0.1 Rebound Number
Range	10 to 70 MPa
Unit Selection	N/mm ² ; MPa; kg/cm ² ; PSI
Autonomy (Continuous Use)	>5 Hours
Dimensions	Hammer: 280mm length x 55mm diameter In Case: 190 x 100 x 350mm
Weight	2kg (4.4lbs) with case
Shipping List	Hammer, battery charger, serial cable for PC, abrasive stone, instruction manual, calibration certificate and carry case

Part Numbers – Spares

Model	Description	Part Number
Elcometer 182	Elcometer 182 Digital Concrete Test Hammer	W182---1B
Accessories	Calibration Anvil (supplied complete with calibration certificate for the hardness of impact point)	
	Calibration Certificate for Calibration Anvil, traceable to EN12504-2	TWCAL-19226
	Replacement Mains Adaptor	TW18219475-2
	Mini Printer	X1829964C