



DR3000 RL COVER METER

The DR3000 instrument complies with standard BS 1881–204

The magnetometer instrument locates reinforcement bars, estimates their size and measures the thickness of the concrete covers (thickness of concrete positioned between the reinforcing bars and the external surface).

The pachometer exploits the magnetic properties of iron to detect ferrous material inside concrete structures.

The instrument makes use of the principle of induced currents. This characteristic prevents measurement from being subject to external influences and disturbances, ensuring precision and reliability of the measurement.

The instrument is composed of an acquisition system, universal probe (S3_RL) complete of connection cable, analysis software and reporting, and scanning probe (P3_RL), that measures probe displacements and stores signals detected along the part.

All information is recorded in the DR3000 acquisition unit and is subsequently shown in the DR3000-W software.

The DR3000 pachometer is sturdy, handy and compact. Provided with a rigid carrying case and shoulder bag, it is easy to use on site.



SPECIFICATIONS

The DR 3000 is composed of an acquisition contained in a plastic crash-resistant case and with a degree of protection for outdoor environments.

The instrument has a 128x8080 pixel, back-lit LCD graphics display, analysis probe connection connectors and scanning probe.

Possibility to save more than 10,000 values, sub-divided by work sites.

USB interface for data transfer into PC easily and quickly.

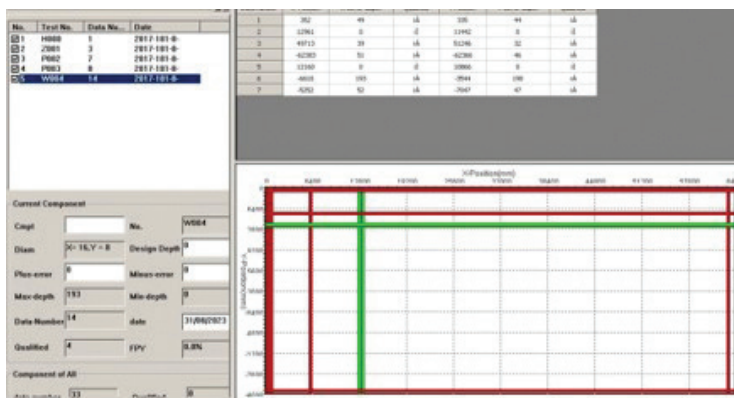
Power supply by means of LR6-1.5V batteries which allow for guaranteed autonomy of 40 hours.

Operating temperature between -10°C and 60°C.

SOFTWARE

The DR 3000 cover meter includes DR3000-W analysis software for the analysis of acquired on-site data and the drafting of test reports.

Data can be exported into Word and Excel files.



FIELDS OF APPLICATION

Cover meter or magnetometer investigation must be carried out before any Non-Destructive or Semi-Destructive tests to be performed on structures in reinforced concrete.

Applications:

- identification and location of reinforcing bars;
- estimate of the size of the metallic element;
- estimate of the thickness of concrete and bar covers (concrete covers);
- structural analysis of buildings;
- analysis of structural steel as indicated in knowledge levels LC1-2-3;
- analysis of minimum concrete thickness for REI fire protection certification.

TECHNICAL SPECIFICATIONS

PERFORMANCE

BAR SIZE	6-50 mm
DIAMETER ACCURACY	2 mm at 80 mm - 3 mm from 80 at 120 mm - 4 mm from 120 at 190 mm
POSITION ACCURACY	3 mm
AUTONOMY	12 hours continuous
FUNCTION	Grid
SECTION FUNCTION	Scanning

PERFORMANCE

SEARCH FUNCTION	Diameter
DR3000-W analysis software and PC storage	

PHYSICAL

DIMENSIONS	200 x 170 x 90 mm
WEIGHT	0,8 Kg
PROBE SIZE	110 x 50 x 30 mm
ENCODER SIZE	140 x 80 x 55 mm





The kit includes:

- DR 3000 Acquisition system
- DR 3000-W Analysis software
- S3_RL Standard probe
- P3_RL Scanning encoder
- Connection cables
- Shoulder bag
- Rigid transport case

PACKAGE

DIMENSIONS	420 x 300 x 180 mm
WEIGHT	5,0 Kg

Warranty & Maintenance

24
months

DRC guarantees maintenance service at its center or at authorized centers



DRC
Diagnostic Research Company
Non Destructive Testing

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