profometer®5+

REBAR DETECTION SYSTEM

- Location and orientation of reinforcing bars
- Measuring concrete cover depth
- Determination of bar diameter
- Compact, user-friendly indicating device with backlight
- ProVista PC software for fast data transfer and editing
- Can be operated in metric and imperial units

PROFOMETER 5+ utilizes the non-destructive pulse-induction method

Standards: SN 505 262 • DIN 1045 •DGZfP B2 • BS 1881: Part 204

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Model S • Basic Instrument

Various location aids are available:

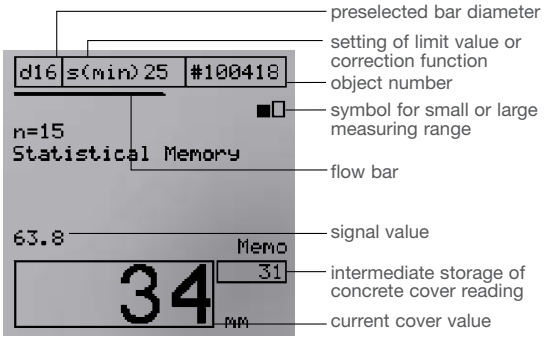
Current value: Distance from surface of reinforcement

Flow bar: Movement of flow bar indicates approach to metal object

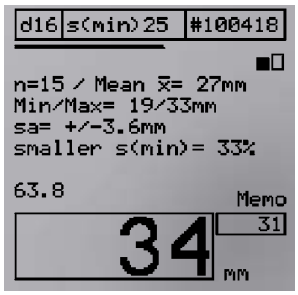
Beep tone: Sounds immediately after crossing the bar axis. Selectable in two frequencies.

Variotone: The closer the probe to the bar, the higher the tone

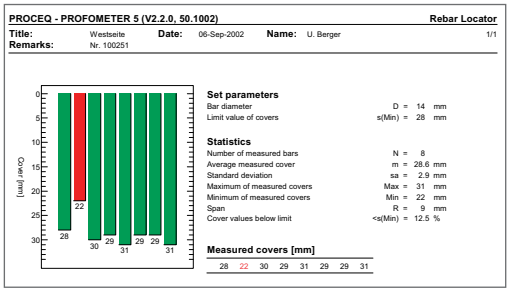
Signal value: Measure of distance from probe to metal object



«Measuring with statistics» function



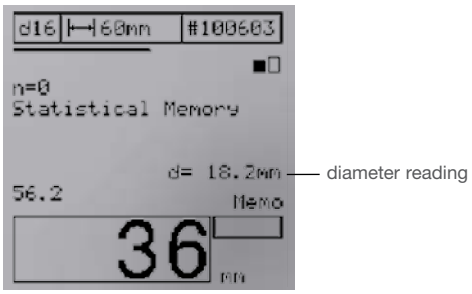
The statistical evaluation of the stored memo values appears when the END button is pressed.



Data transfer to PC and evaluation with ProVista Software

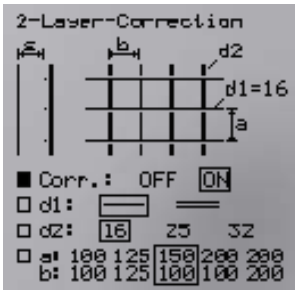
Determine the bar diameter of closely spaced parallel bars

The instrument compensates the influence of the neighboring bars.



Measure the cover depth in congested bar arrangements

Measure the bar spacing and select the measuring mode. The instrument compensates for the influence of the adjacent bars.

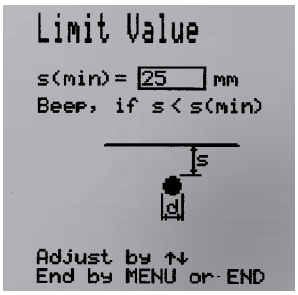


Detect bars with insufficient concrete cover

Suggested applications:

- Check after removing formwork
- Quality assurance
- Evaluation basis for repair

The universal probe can be moved rapidly with the preselected limit value. If the cover is too low, an acoustic warning signal is given.



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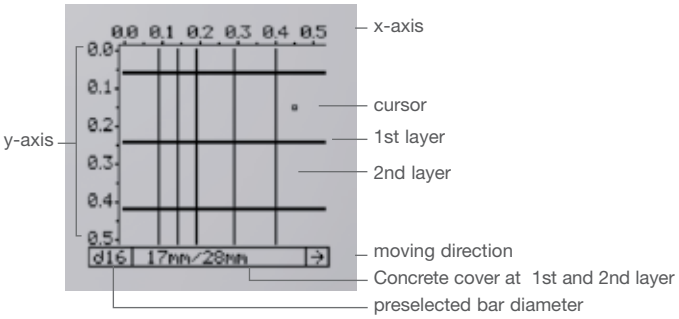
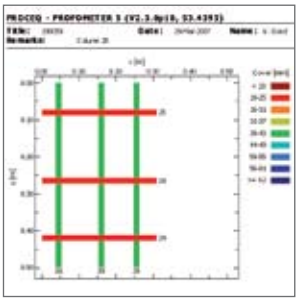
Modell SCANLOG • Identical to Model S – with these additional Features:

- "CyberScan" function to visualize reinforcing bars on the display
- "Measuring with grid" function for grey-scale display of concrete cover
- ScanCar probe cart with integrated path measuring device for scanning

Make reinforcement visible with "Cyber Scan"!

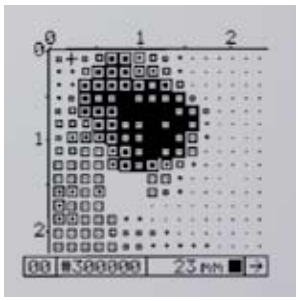
Three scales are available: 0.5 x 0.5 m, 1.0 x 1.0 m, 2.0 x 2.0 m



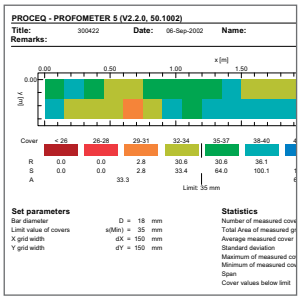


Data transfer to the PC and processing with ProVista Software

«Measuring with grid» function

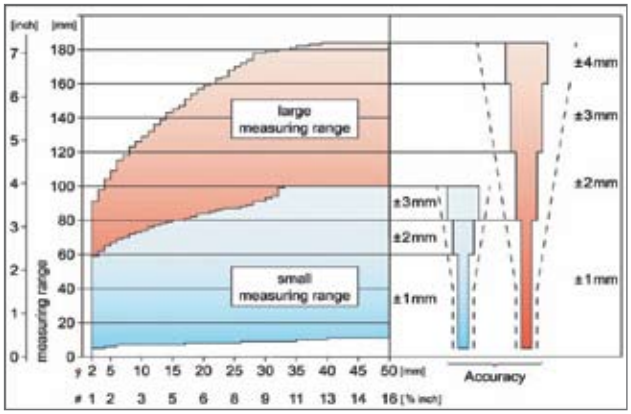


Display



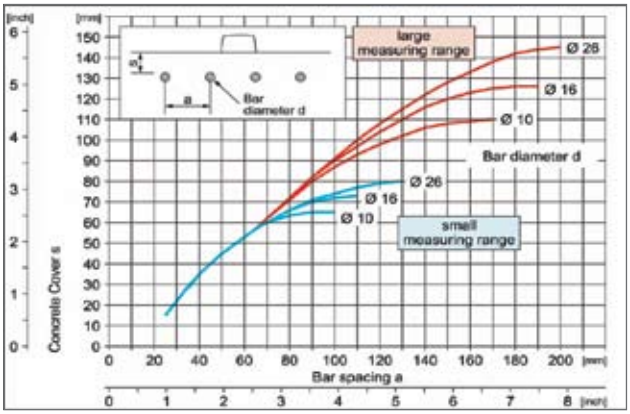
Data transfer to the PC and processing with ProVista Software

Measuring ranges and accuracy of the cover reading for individual bars...



ø bar diameter in mm
bar diameter in «Bar size#»
--- accuracy required by BS 1881: Part 204: ± 2 mm or ± 5%

...and unsurpassed resolution



The diagram shows the minimum bar spacing (a) at which the bars can still be individually detected as a function of the concrete cover (s).

Example : Bar diameter d = 16 mm
Concrete cover s = 55 mm
Minimum bar spacing a = 70 mm

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Technical Information

Indicating device Model S

MEMORY: non-volatile memory for 40'000 measured values and 60 objects respectively

DISPLAY: LCD with backlight option

INTERFACE: RS232 or with Adapter for USB Port on PC

SOFTWARE: ProVista for downloading data and evaluation on PC

BATTERIES: 6 x 1.5V for 45h operation; 30h with backlight on

TEMPERATURE RANGE: -10° to +60°C

Universal probe

Probe for locating rebars and measuring cover depth in two depth ranges as well as determining rebar diameters.

Indicating device Model SCANLOG

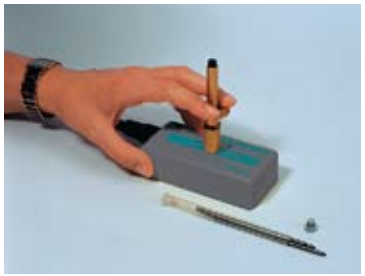
The unit is identical to Model S, with additional features for the Cyberscan and the measuring with grid function.
Memory capacity: 120'000 values in function measurement with grid and a total of 60 objects.

Model S can be upgraded to Model SCANLOG. Contact Proceq for details.

Main components


Test block


Telescopic rod for universal probe or ScanCar


Marking pen for universal probe

Ordering Information

UNIT MODEL S

390 00 050	Rebar Detection System PROFOMETER 5+ Model S
Includes	Indicating device, universal probe, probe cable 1.5 m, transfer cabel 1.5 m, adapter RS232/USB, ProVista Software on memory stick, carrying strap, headset, protective sleeve for indicating device, operating instructions, carrying case, total weight 4.2 kg

UNIT MODEL SCANLOG

390 00 054	Rebar Detection System PROFOMETER 5+ Model SCANLOG identical to Model S, with the additional features plus probe cart ScanCar with path measuring cable 1.55 m, total weight 4.5 kg

ACCESSORIES FOR BOTH MODELS

390 00 270	Test block
390 00 363	Telescopic rod for universal probe or ScanCar
390 00 280	Marking pen for universal probe

REPLACEMENT PARTS

390 00 068	Universal probe
390 00 084	Protective film for universal probe
330 00 470	Protection sleeve for indicating device
390 00 163	Probe cable 1.5 m
390 00 168	Path measuring device cable 1.55 m
330 00 456	Transfer cable 9/9 poles
390 00 542	Adapter RS 232 / USB
390 00 078	Carrying case
820 39 001	Operating instructions

Subject to change without notice.

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