

# profometer<sup>®</sup>5<sup>+</sup>



## 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<sup>+</sup> utilizes the non-destructive pulse-induction method



Standardized according to SIA 162 • DIN 1045 • DGZfP B2 • BS 1881: Part204

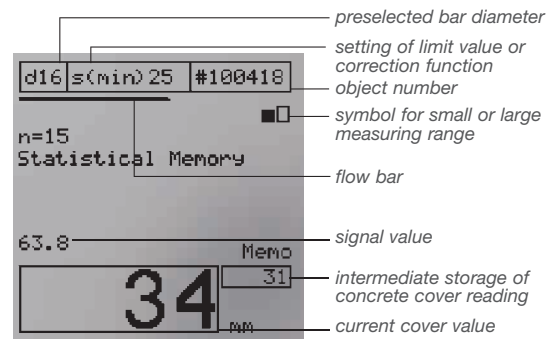
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[www.proceq.com](http://www.proceq.com)

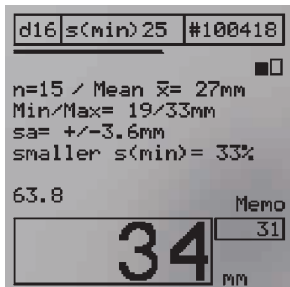
## Model S • Basic Instrument

### Various location aids are available:

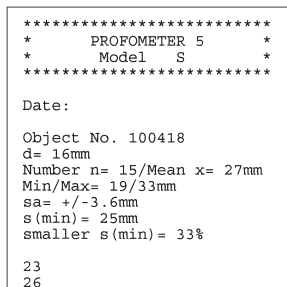
- Current value:** Distance from surface of reinforcement
- Flow bar:** Movement of flow bar indicates approach to metal object
- Beep tone:** Sounds immediately after crossing the bar axis. Selectable in two frequencies.
- Variotone:** The closer the probe to the bar, the higher the tone
- Signal value:** Measure of distance from probe to metal object



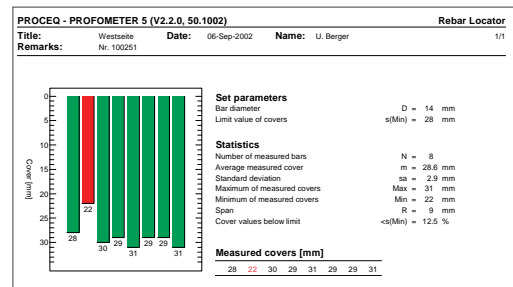
### «Measuring with statistics» function



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



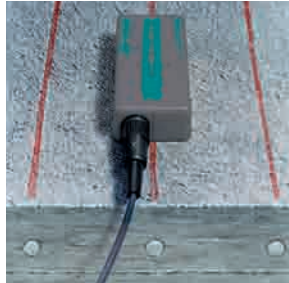
Sample data printout via RS 232 interface to optional printer.



Data transfer to PC and evaluation with ProVista Software

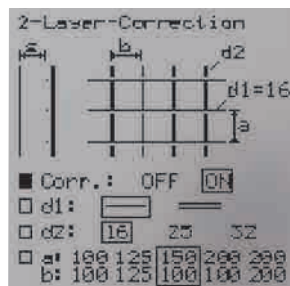
### Determine the bar diameter of closely spaced parallel bars

The instrument compensates the influence of the neighboring bars.



### Measure the cover depth in congested bar arrangements

Measure the bar spacing and enter the values. The instrument compensates for the influence of the adjacent bars.

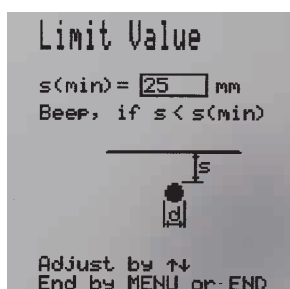


### Detect bars with insufficient concrete cover

#### Suggested applications:

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

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



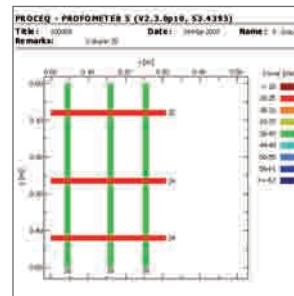
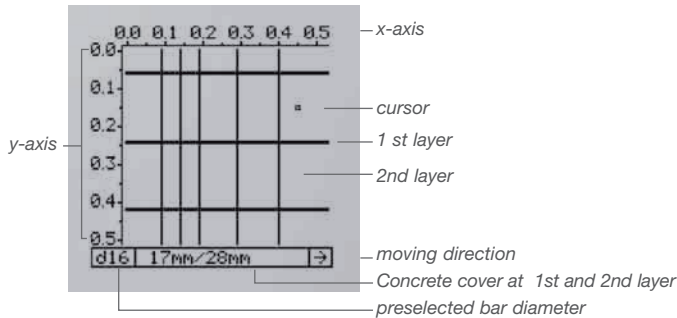
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**Modell SCANLOG • Identical to Model S – with these additional features:**

- "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"!**

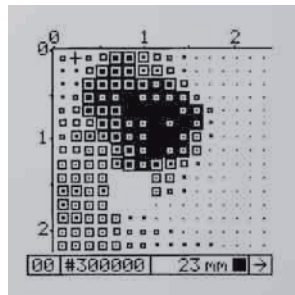
Three scales are available: 0.5 x 0.5 m, 1.0 x 1.0 m, 2.0 x 2.0 m



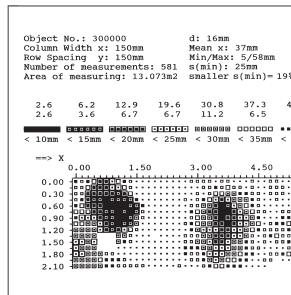
Data transfer to the PC and processing with ProVista Software



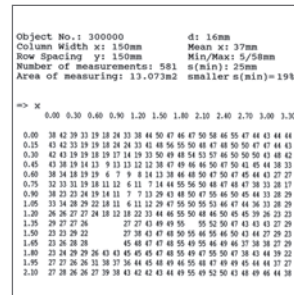
**«Measuring with grid» function**



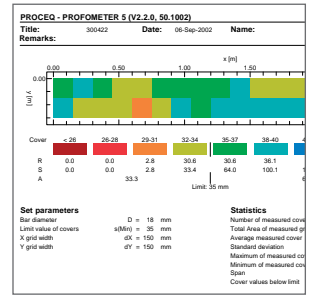
Display



Printout of concrete cover in grey scale

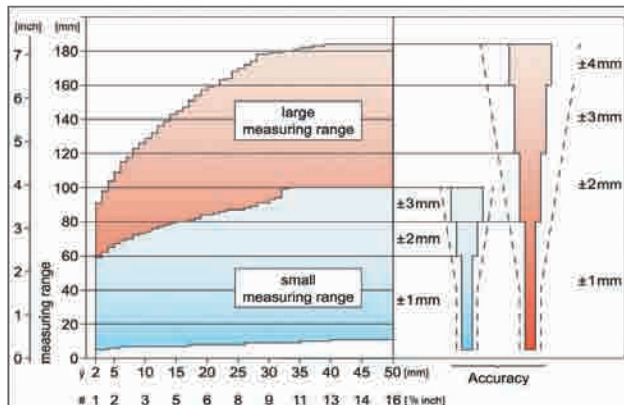


Printout of concrete cover values



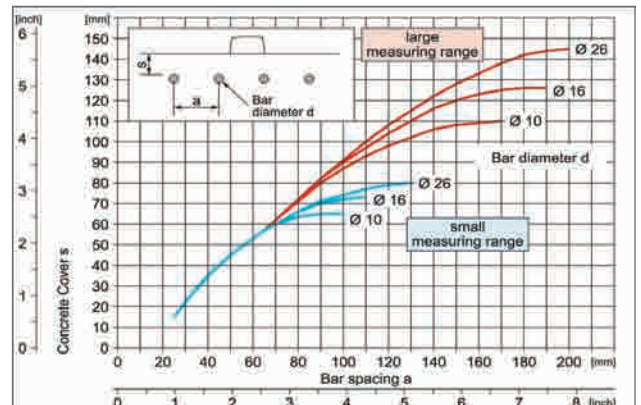
Data transfer to the PC and processing with ProVista Software

**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 oder ± 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

### Display device Model S

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

DISPLAY: LCD with backlight option

INTERFACE: RS232

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 within range.

### Display 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.

## Ordering Information

### UNIT MODEL S

390 00 050 Rebar Detection System PROFOMETER 5+ Model S

Includes Indicating device, probe cable 1.5m, transfer cable 1.5m, ProVista Software on CD, carrying strap, headset, protective sleeve for display unit, 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 1.55m, interface converter serial/parallel, incl. 2m cable, total weight 4.5 kg

### ACCESSORIES FOR BOTH MODELS

390 00 270 Test block

390 00 076 Telescopic rod for universal probe or ScanCar

390 00 280 Marking pen for universal probe

390 00 540 Adapter RS 232/USB

### REPLACEMENT PARTS

390 00 068 Universal probe

390 00 084 Protective film for universal probe

330 00 470 Protection sleeve for display unit

390 00 163 Probe cable 1.5m

390 00 168 Path measuring device cable 1.55m

330 00 456 Transfer cable 9/9 poles

390 00 188 Interface converter serial/parallel, incl. 2m cable

390 00 078 Carrying case

820 390 01 Operating instructions

Subject to change without notice



Main components



Test block



Telescopic rod for universal probe or ScanCar



Marking pen for universal probe

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