

PROFOMETER 5+ – Rebar Location, Cover and Diameter



The PROFOMETER 5+ is manufactured by Proceq, a Swiss company certified under ISO9001. Proceq have over 30 years experience in cover meter manufacture.

The PROFOMETER 5+ locates reinforcing bars and measures concrete cover – quickly, simply and with complete accuracy. It can also be used to give bar diameter.

The PROFOMETER 5+ is a lightweight, compact unit. It works with non-destructive pulse-induction that is largely insensitive to external interferences. It is available in two versions, Model S and Model SCANLOG.



Model S –

The Model S is the basic model but performs all the functions necessary to locate reinforcement and determine its depth and the bar size. Model S can be upgraded to Model SCANLOG by purchase of the ScanCar probe carriage.

- **Display Unit.**

The heart of the PROFOMETER 5+ is a display unit with non-volatile memory to store up to

40,000 measured values. The unit can be set up to record data from 63 locations. The results are displayed on a 128 x 128 graphics LCD or can be downloaded via and RS 232 interface to the PC. Batteries give 45 hours of operation in the operating range of -10°C to +60°C.

- **Universal Probe.**

The probe automatically compensates for effects resulting from magnetic aggregate material or special cement.

- **Probe cable (1.5 m) & Transfer cable (1.5m)**

- **ProVista Software**

Programmes, provided on Memory Stick,

- **Carrying strap**

- **Headset**

- **Protection sleeve for display unit**

- **Operating Instructions**

- **Carrying case**

The 463x365x107mm durable plastic carry case holds all the equipment securely.

Model SCANLOG -

The Model Scanlog is identical to Model S except that it also comes with the ScanCar probe carriage with path measuring cable. This enables the additional features to be used ie:

- **CyberScan** for displaying the reinforcement.

- **Measuring with Grid** for grey-scale display

The results of both functions can be stored and transferred to a PC using the interface converter.

Accessories

Optional accessories include:

- Test block

- Telescopic rod

Comparison To PROFOMETER 4

Thanks to the new measurement method (pulse induction method), the results are more precise with the PROFOMETER 5+ rebar locator. Three probes are united in the new Universal probe. The spot probe, the depth probe and the diameter probe. The new probe carriage "ScanCar" makes the measurement of surfaces easier, quicker and more detailed.



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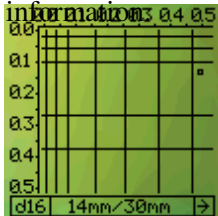
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Methods Of Rebar Location

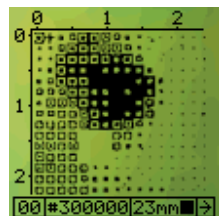
The display unit provides various ways of identifying the location of the buried reinforcement.

- Flow bar**
Increasing movement of the flow bar on the display indicates increasing distance to the reinforcement.
- Current value**
The display shows the current distance from the concrete surface to the nearest reinforcement
- Variotone**
As the probe is swept across the concrete surface a sound is emitted. The nearer the probe is to the bar, the higher the tone.
- Beep tone**
The beep tone sounds immediately when the probe crosses the bar axis.
- Signal value:**
Unfactored measure of distance from probe

Scanlog has two means of displaying the reinforcement location



CyberScan

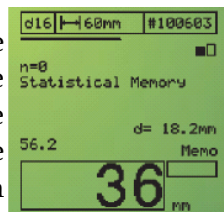


Measure with Grid

Other Features

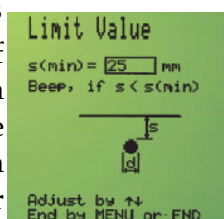
- Detect Insufficient Cover**

When the pre-selected limit value is set the universal probe can be swept rapidly across the concrete surface without observing the display. If the cover is too low, an acoustic warning signal is given.



- Use With Closely Spaced Bars**

Accurately locate the axis of neighbouring bars and mark it on the concrete surface. Measure the bar spacing and enter the value in the unit. The diameter measurement can then be made and the result appears on the display.



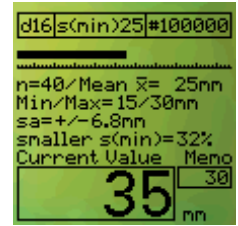
- Measure with Stats**

While the probe is being swept over the concrete surface the

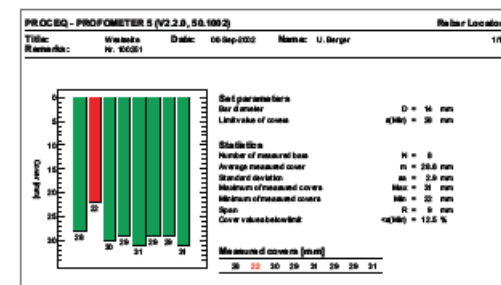
Current Value is continuously updated to show the distance

to the nearest bar. This reading

is not stored until the minimum distance is obtained. This smallest concrete cover measured remains temporarily stored in the "Memo" frame. When the operator is sure the "Memo" field represents the smallest value that will be obtained for the associated reinforcing bar the button is pressed and the statistical evaluation is updated to include the "Memo" values.



Provista Software



The Provista software provide a suite for downloading data files and elegantly reporting results

About PCTE

PCTE have over 30years experience in the measurement and testing of concrete. With experience in research, consulting and construction they are able to assist you in reviewing the issues and developing solutions. PCTE can provide more than just the equipment. They can provide leading technical support for your business.

Other Equipment

The full Proceq range of equipment is available for insitu non destructive concrete measurement

- Profometer Covermeter
- Schmidt rebound hammers
- Ultrasonic testing
- Electrical potentials
- Concrete resistivity
- Permeability
- Absorption

We also supply maturity measurement equipment, corrosion rate monitoring equipment, GPR, Impact Echo and many other advanced concrete NDT's