Detect Overlapping Rebar, Varying Sizes and Metal Anomalies in Concrete with Ease

Introducing the New Signal Strength Indicator for Profometer PM8000 Lite Cover Meter

Evaluating rebar size can be a complex task, especially when dealing with overlapping rebars, varying sizes, or irregular metal masses.

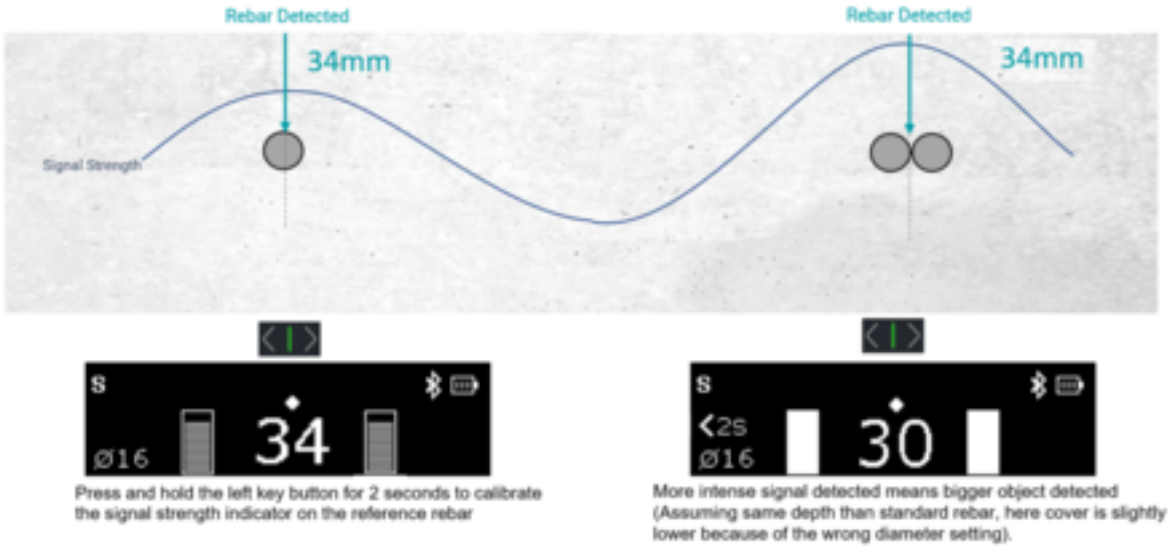
The latest generation cover meter, the PM8000, in standalone mode, offers enhanced capabilities with its new Signal Strength Indicator feature. This functionality allows you to detect overlapping rebars, distinguish between different rebar sizes, and identify large metal masses, all using the compact PM8000 Lite cover meter.

Detect overlapping rebar

Overlapping rebar is a technique used to create longer reinforcement bars than are available in standard lengths. This contributes to structural integrity and helps prevent weak spots.

There are many instances where the overlapping rebar needs to be checked, for example, to ensure sufficient staggering, lap length, or concrete cover. However, detecting them accurately can be challenging with a standalone cover meter.

The new signal strength Indicator on the PM8000 Lite cover meter now makes it possible to detect overlapping rebar with ease.



Press and hold the left key button for 2 seconds to calibrate the signal strength indicator on the reference rebar

More intense signal detected means bigger object detected (Assuming same depth than standard rebar, here cover is slightly lower because of the wrong diameter setting).

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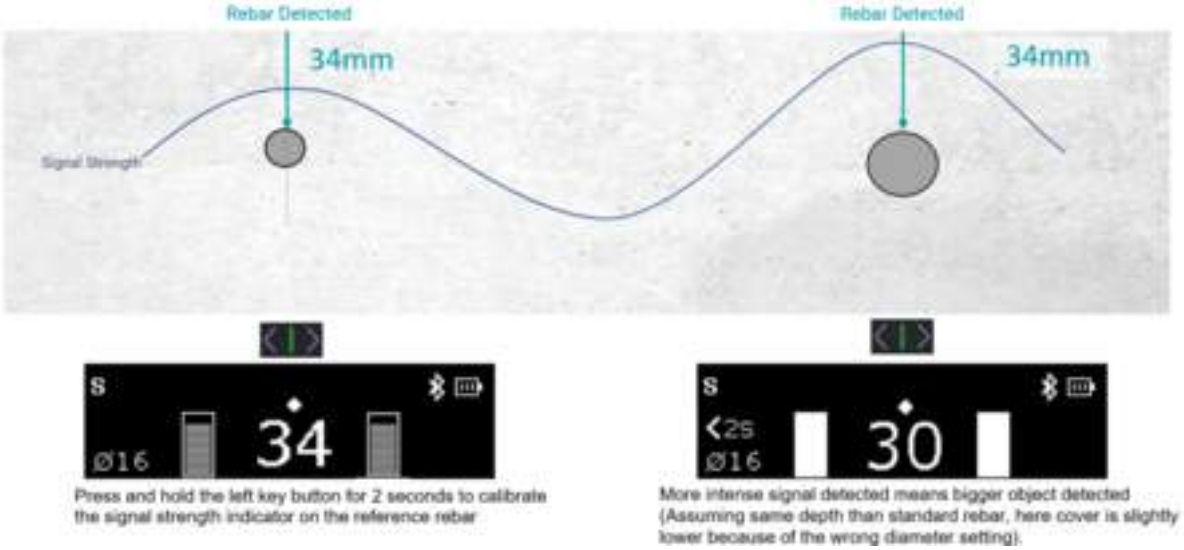
Distinguish between different rebar sizes

In some cases, rebars may be bigger or smaller than the standard references sizes, making them more difficult to differentiate when they are buried in concrete. Most standalone cover meters are only calibrated based on standard rebar sizes, so they may not accurately measure rebars that are larger diameter than the usual sizes. On the other hand, they may not be sensitive enough to detect smaller than standard rebar.

This is no longer an issue, as the versatile PM8000 Lite can now differentiate between various rebar sizes, even in non-standard reinforcement layouts, assuming all rebars are at a similar depth. This is great news for professionals working on complex structures with custom rebar configurations. Variations in signal intensity will aid in distinguishing between different rebar sizes.



caption

Detect abnormal metal mass

Knowing you have the right tools for the job gives you confidence to tackle anything. In some scenarios, that “anything” could be an abnormally large mass of metal. One minute you are scanning the rebar with consistent readings, the next minute you could encounter a large unknown metal mass.

Previous ways of detecting abnormal metal mass in concrete was challenging with a standalone cover meter. Now, with the signal strength indicator on the PM8000 Lite, you instantly see clear indication on the readings with a simple display on the device, assuming all rebars are at a similar depth.

How to get the new Signal Strength Indicator on the Profometer PM8000 Lite (Or PM8000 standalone)

The new signal strength indicator feature is delivered via a new firmware update for PM8000 cover meters, available from now.

To update the firmware, download PqUpgrade PC software from the product webpage, then connect the PM8000 to your PC with a USB cable.

Once your device is updated, the Signal Strength Indicator is automatically ready to use alongside our other recent firmware update for Neighbouring Rebar Correction. Please refer to the PM8000 User Manual for more information.

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