

## 8020 Covermeter

### FEATURES

- Lightweight K9 Probe with Keypad
- Auto Rebar Diameter determination
- Programmable & Depth displayed in High/Low range
- Accurate discrimination of close bars
- Quick scanning facility to preset depth
- Data logging to Spreadsheet
- Signal strength and LED indicators
- IP65 rated, screen backlight
- Carry case, harness, charger, Software and Instructions



### BAR SIZING ACCURACY

**± 0.5mm to ± 1.5 mm**

Dependent on bar size and cover depth and the closeness of other bars.  
 Error codes indicate to the user if there is too much or too little cover for a bar size to be estimated.  
 Otherwise the bar size is indicated and the current bar size used by the 8020 is updated automatically, resulting in greater depth indication accuracy.

### BAR SIZING

BAR SIZING RESOLUTION

0.1 mm

The minimum depths of between **8-22** mm of cover, which are dependent on the bar size, can be overcome by the introduction of any spacer when the bar is too close to the surface.

Typically a **6**mm bar can be sized down to **60**mm of cover and a **40**mm bar can be sized down to **80**mm of cover.

### COVER DEPTH MEASUREMENT RANGE

From **5** to **185**mm dependent on bar size. Readings closer to zero can be achieved by insertion of spacer of known thickness to increase distance of probe from target.

<b>Examples of Accuracy</b>	±1mm up to <b>60</b> mm cover
	±2mm up to <b>120</b> mm
	±3mm up to <b>160</b> mm
	±4mm over <b>160</b> mm

Better than BS1881 part 204 over full range of Instrument

### BAR RESOLUTION

Dependent on bar size and cover. Some examples are shown here.

Bar Diameter:	Cover:	Minimum Spacing:
<b>16</b> mm	<b>60</b> mm	<b>70</b> mm
<b>16</b> mm	<b>100</b> mm	<b>110</b> mm
<b>25</b> mm	<b>130</b> mm	<b>150</b> mm

### DATA LOGGING CAPABILITY

The logging capacity is 10000 bits of information comprising:

- Cover measurement
- Bar size
- Date
- Time
- Log Number

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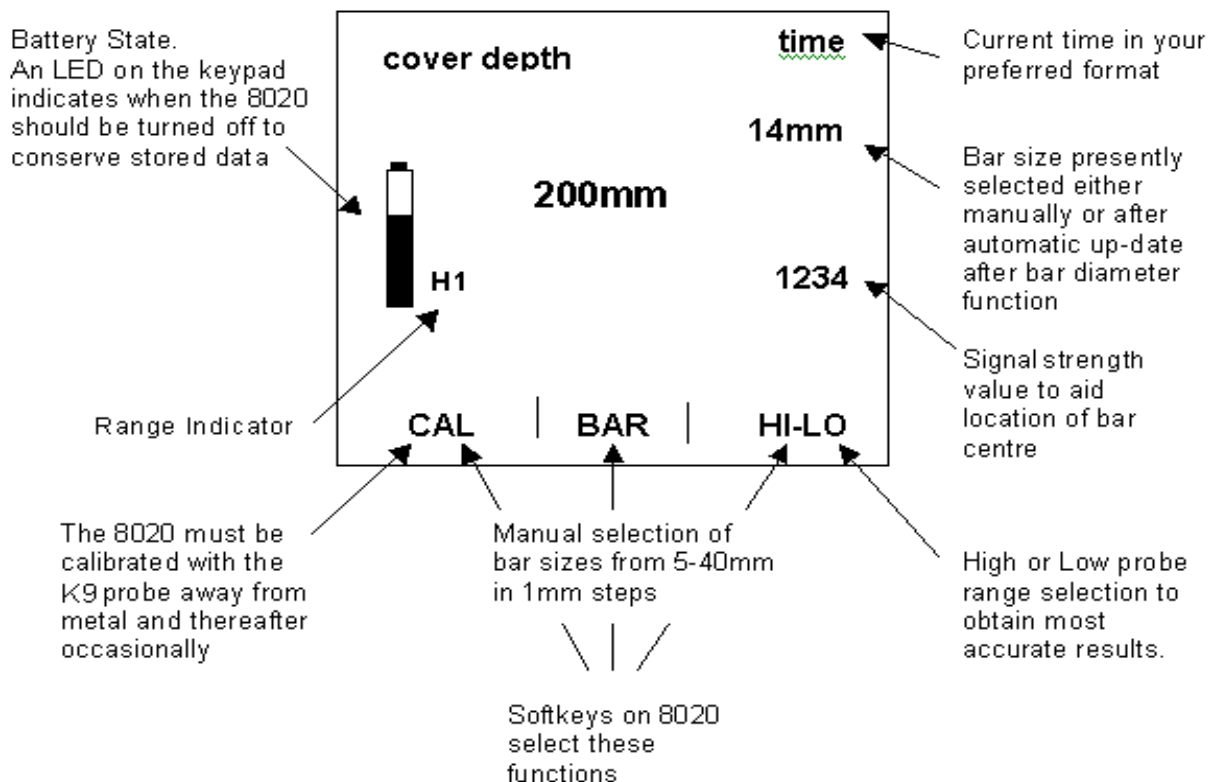
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## 8020 Covermeter (Cont'd)

The PC application communicates with the **8020** via a serial port and enables the downloading directly into a Microsoft Excel spreadsheet format (\*.csv file). This will include the facility to download a selected range of logged data "points" such that only the required data is transferred to the spreadsheet. This program is simple to install and has been tested on Windows 2000, ME and XP.

Using high-powered processors in conjunction with pulse induction search technology, automatic bar diameter determination within the parameters defined below enables very precise depth readings and bar orientation to be obtained even where there is the need to discriminate between bars on close centres. Several Menu and Set-up screens are available to tailor the 8020 to your local requirements, and the unit remembers these settings at switch on until modified, even after power-down for battery conservation. Battery life is shown on screen but an additional visual indication is given when to continue work might compromise stored data, and that re-charging is essential.

*A typical operating screen is shown below.*



On/Off-Function switch on keypad selects Menus as required. The screen appearing immediately after the Cover depth screen shown above is for Bar Sizing. A further screen is available for examining data that has been logged from the K9 probe. This probe also has an LED for assisting in finding the top dead centre position of bars as the probe is swept across the surface.