



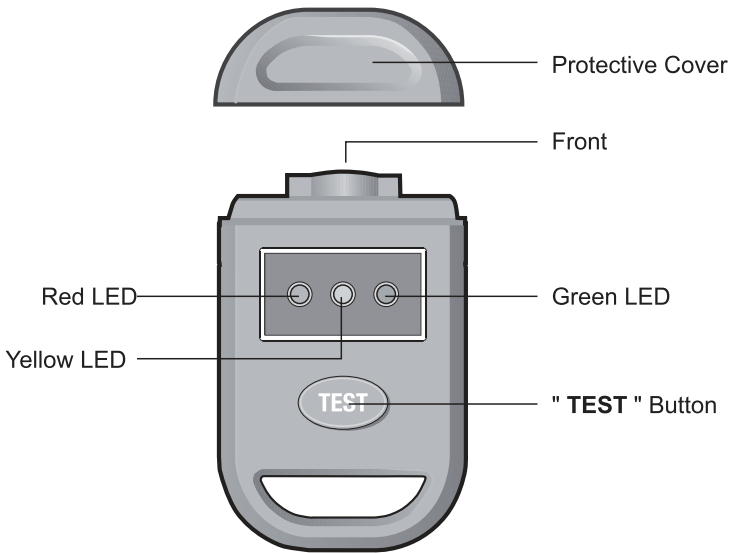
# KRAFTWERK®

quality tools



## Using-Instructions Coating thickness gauge

EN



Art. 31132



Please read these instructions carefully to ensure the safe and effective use of this tool.

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## Turn-on procedure

Press and hold the **TEST** button for about 2 seconds to turn on the gauge. The red LED flashes indicating that the gauge is in Stand-by mode.

## Normal Operation

1. When the gauge is in Stand-by mode, hold the gauge far away from any object and press the **TEST** button briefly to enter Normal Operation mode, the red LED will light constantly.
2. Place the gauge with its front firmly and in a right angle against the surface to be measured. If the coating thickness is less than about 1 mm, the green LED will light up. If the coating thickness is between approximately 1mm and 1.8 mm, the yellow LED will light up. If the coating thickness is more than about 1.8 mm, the red LED will light up.
3. To return to the Stand-by mode, press the Test button briefly when the gauge is in Normal Operation mode and the red LED is on.

## Reference Operation

1. When the gauge is in Normal Operation mode, place the unit with its front firmly and in a right angle against a reference surface whose coating thickness is less than about 1.8mm. The thickness of the coating on this surface acts as a reference for subsequent measurements. Press the **TEST** button again to enter Reference Operation mode, now the red LED and green LED flash alternately. ( **Note:** Hold the unit steadily )
2. When the gauge is removed from the reference surface, the red LED and yellow LED flash alternately. Then press the gauge to the target surface which you want to compare with the reference surface.
3. If the coating thickness of the target surface is different from that of the reference surface, the red LED and yellow LED will flash alternately. If the coating thickness of the target surface is the same as that of the reference surface, the red LED and green LED will flash alternately.

## To Return to the Stand-by Mode

1. In Normal Operation mode, when the red LED is on, pressing the **TEST** button briefly causes the unit to return to Stand-by mode.
2. In Reference Operation mode, pressing the **TEST** button briefly causes the unit to return to Stand-by mode.

## Automatic Power-off

1. In Stand-by mode, if the gauge has not been operated for about 20 seconds, it will turn off automatically.
2. In Normal Operation mode, if the red LED has lighted for about 20 seconds, the gauge will turn off automatically.
3. In Reference Operation mode, if the red LED and yellow LED have flashed alternately for about 20 seconds, the gauge will turn off automatically.

4. In any mode, you can press and hold down the **TEST** button for more than about 3 seconds to turn off the gauge manually.

## Battery Replacement

Before the gauge turns off, the three LEDs will flash together three times. This is normal. If the three LEDs flash together continuously ( $\leq 20$  secs), the button cell is low and should be replaced immediately.

To replace button cell, turn off the gauge first and then remove the protective cover. Remove the screws on the bottom cover and remove the bottom cover, replace the exhausted button cell with a new one of the same type, make sure that the polarity connection is correct ( see Figure 2 ); otherwise the button cell will explode. Reinstall the bottom cover and the screws.

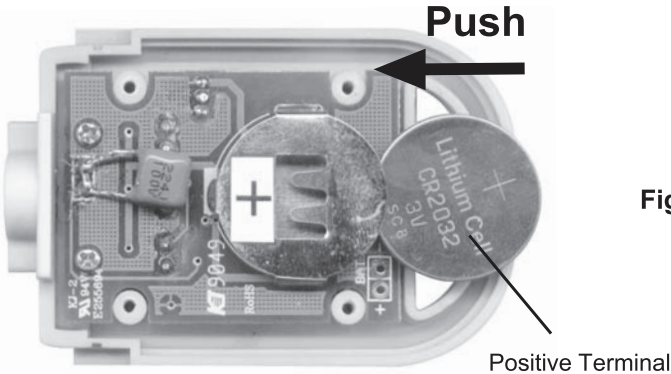


Figure 2

## Install Button Cell

## Specification

<b>Number of Use of the Sensor:</b>	No limitation
<b>Maximum Coating Thickness Detection:</b>	1.8 mm ( in Normal Operation mode and Reference Operation mode)
<b>Tolerance:</b>	$\pm 0.3$ mm
<b>Current Consumption:</b>	About 6 mA during operation About 10 $\mu$ A in OFF state
<b>Battery:</b>	3 V button cell, CR2032 or equivalent, one piece
<b>Low Battery Indication:</b>	Three LEDs flash together continuously ( $\leq 20$ secs ).
<b>Operating Environment:</b>	Temperature: 0°C - 40°C Relative humidity: < 80%
<b>Storage Environment:</b>	Temperature: -10°C - 60°C Relative humidity: < 80%
<b>Dimensions:</b>	68 x 40 x 16 mm
<b>Weight:</b>	about 25 g ( including button cell )

## Note

1. This Instruction Sheet is subject to change without notice.
2. Our company will not take the other responsibilities for any loss.
3. The contents of this Instruction Sheet can not be used as the reason to use the instrument for any special application.



**WARNING!** Do not attempt to disassemble the battery or remove any component projecting from the battery terminals. Fire or injury may result. Prior to disposal, protect exposed terminals with heavy insulating tape to prevent shorting.

**NOTE:** Before disposing of damaged, check with your state Environmental Protection Agency to find out about special restrictions on the disposal of tool or return them to a certified service center for recycling.

## WARRANTY

We do not take responsibility for any damage caused by misuse.

## CUSTOMER SERVICES

Contact your local importer of your specialized dealer to obtain address of our service department. You find our partners under **[www.KRAFTWERKtools.com](http://www.KRAFTWERKtools.com)**



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