



# Coating Thickness Gauge - QualiCTG<sup>™</sup> II

## APPLICATIONS

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### **Coating Thickness Gauge - QualiCTG™ II Overview**

QualiCTG™ II series Coating Thickness Gauges can non-destructively measure the thickness of non-conductive coatings on metal surfaces, as well as non-ferromagnetic metal coatings on ferromagnetic metals (such as iron, nickel and cobalt, etc.), specific applications include measuring iron, stainless steel surface paint or galvanizing Layer thickness, measure the thickness of aluminum, copper surface paint or plastic film, etc.

QualiCTG™ II has a built-in magnetic induction and eddy current effect probe, with a measurement range of 0~2000μm and a measurement accuracy of  $\pm(2\%+1\mu\text{m})$ .





QualiCTG™ II operates only with one button, and the operation is very simple. During measurement, the user only needs to quickly attach the probe end to the surface of the object to be measured. During the process of shrinking the probe to the inside of the instrument, the instrument can automatically distinguish the properties of the substrate and measure the thickness of the coating (plating) layer.

The measurement results can be sent to the mobile APP in real time via Bluetooth. In addition, the instrument is equipped with a large capacity memory. During the measurement process, the instrument automatically counts and records the measurement results. The recorded data can be transferred to a computer via a USB cable.

QualiCTG™ II has two displays, the larger LCD screen is on the front of the instrument and the smaller OLED screen is on the top of the unit. The dual-screen display allows users to view the measurement results from different angles.

QualiCTG™ II is suitable for car paint inspection: while measuring paint thickness, it can also identify iron galvanized and iron powder putty materials. The instrument has strong anti-interference ability and can work normally in a more complex electromagnetic field environment.





## Application:

- Automotive paint inspection
- Metal anti-rust treatment
- Film thickness detection
- Hardware parts processing

## FEATURES

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### Coating Thickness Gauge - QualiCTG™ II Features

- Dual screen display
- Wear-resistant probe with ruby tip
- Support Bluetooth and mobile APP
- Support USB data transfer
- Support USB to upgrade the instrument firmware
- Iron galvanized identification (Blue backlight prompt)
- Iron powder putty identification (Red backlight alarm)
- Reaction time is less than 0.5 seconds
- Indicator light
- Accuracy  $\pm(2\%+1\mu\text{m})$
- Range 0~2000 $\mu\text{m}$
- Single button operation
- Zero calibration
- Display maximum, minimum, average and count
- 10 measured values can be checked back
- Automatic power-off

- Battery protection

## **TECHNICAL SPECIFICATIONS**

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### **Coating Thickness Gauge - QualiCTG™ II Technical Specifications**

<b>Model</b>	QualiCTG™ II
<b>Measurement principle</b>	Fe: Magnetic induction; NFe: Eddy current effect
<b>Measurement range</b>	0~2000μm
<b>Accuracy</b>	±(2%+1μm)
<b>Resolution</b>	0.1μm(0~99.9μm); 1μm(≥100μm)
<b>Units</b>	μm ,mm, mil
<b>Iron powder putty identification range</b>	0~2000μm
<b>Iron galvanized identification range</b>	3~1000μm

<b>User calibration method</b>	Zero calibration
<b>Probe trigger force</b>	0.5~1.2N
<b>Minimum radius of curvature of substrate</b>	Convex 5mm; Concave 25mm
<b>Minimum measurement area</b>	Diameter 15mm
<b>Minimum substrate thickness</b>	Fe: 0.20mm; NFe: 0.03mm
<b>Reaction time</b>	Less than 0.5 seconds
<b>Display</b>	Dual screen display
<b>USB data transfer</b>	Support
<b>Bluetooth and mobile APP</b>	Support
<b>Operating temperature</b>	-10~50°C
<b>Stored temperature</b>	-20~60°C
<b>Power supply</b>	2 AAA1.5V alkaline batteries; 2AAA1.2V rechargeable batteries

<b>Protection class</b>	IP40
<b>Dimension</b>	101*64*25mm
<b>Shell material</b>	ABS
<b>Weight</b>	60g (without battery)

**Notice:**

- Avoid sun exposure.
- Avoid contact with corrosive chemicals.
- Do not drop on the floor.



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