



Coating Thickness Gauge QualiCTG™ I

QualiCTG™ I Coating Thickness Gauge can measure the thickness of non-conductive cladding of metallic surface and ferromagnetic metal (e.g. iron, nickel, cobalt) surface without, including measuring the thickness of iron, stainless steel surface paint or galvanized layer, and measuring the thickness of plastic film of aluminum and copper surface paint.

APPLICATIONS

Coating Thickness Gauge QualiCTG™ I Overview

QualiCTG™ I built-in magnetic sensor and eddy current effect integrated probe, with a measurement range of 0~2000μm and the measurement accuracy of $\pm (2.5\% + 1\mu\text{m})$, and its resolution is up to 0.1μm. When measuring, the user only needs to fit the probe and the end quickly, the surface of the measured object, in the process of contracting the probe into the equipment, the equipment can automatically distinguish the substrate properties and measure the thickness of the coating (plating) layer.

The QualiCTG™ I has a streamlined menu and data display interface that displays the average, maximum, and minimum values, and indicates and alert data overrun. In addition, the device contains large-capacity memory. During the measurement process, the equipment can count and record the measurement results. The recorded data can be transmitted to the computer via the USB data cable.



Applications:

- Car paint testing
- Metal antirust treatment
- Film thickness detection
- Hardware parts processing



FEATURES

Coating Thickness Gauge QualiCTG™ I Features

- Ruby wear-resistant probe
- Supports USB data transfer
- Upgrade device firmware by USB
- Accuracy $\pm(2.5\% + 1\mu\text{m})$
- The highest resolution is $0.1\mu\text{m}$
- Measurement range from 0 to $2,000\mu\text{m}$
- Minimum, maximum, and mean values available
- Red backlight over-limit alarm
- Standardized menu interface
- Support for user calibration
- Reaction time less than 0.5s
- Manual rotation screen
- Auto shut off
- Battery protection

TECHNICAL SPECIFICATIONS

Coating Thickness Gauge QualiCTG™ I Technical Specifications

Model	QualiCTG™ I Coating Thickness Gauge
Measuring principle	Fe: Magnetic induction; NFe: Eddy current

Measuring range	0~2000μm
Accuracy	±(2.5%+1μm)
Resolution ratio	0.1μm (0~99.9μm); 1μm (≥100μm)
Units	μm, mm, mil
User calibration	Zero calibration, point calibration
Statistic	Number of data, maximum, minimum, mean, standard variance
USB data transmission	Supported
Data Storage	320 measurements
Probe trigger force	0.3~0.8N
Minimum radius of curvature of the substrate	Convex surface 5mm; Concave surface 25mm
Minimum measurement area	Diameter 15mm
Minimum substrate thickness	Fe: 0.30mm;NFe: 0.05mm
Reaction time	< 0.5 seconds
LCD	Dot array LCD screen
Operational environment	Temperature: -10~ +50°C; Humidity: 20~90%RH (non-condensation)
Storage environment	Temperature: -20~ +60°C; Humidity: 20~90%RH (non-condensation)
Battery	2 pcs 1.5V alkaline batteries; 2 pcs 1.2V rechargeable batteries
Levels of protection	IP40
Dimension	114*53*25mm
Case material	ABS

Weight	80g (without the battery)
---------------	---------------------------

Note:

- Avoid sun exposure.
- Avoid direct contact with corrosive chemicals.
- Avoid dropping on floor.



ADVANCED TESTING TECHNOLOGIES

USA | CANADA | UAE | GCC | EU | INDIA | APAC | AFRICA | LATIN AMERICA

Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

Qualitest USA (Corporate Sales Office)

Toll-Free: 1.877.884.TEST (8378) | Fax: 954.697.8211
E-mail: info@qualitest-inc.com
Address: 8201 Peters Rd., #1000,
Plantation, FL 33324, USA.

Qualitest Canada & International

Tel: +1.905.944.9825 | Fax: +1.905.944.0304
E-mail: sales@qualitest-inc.com
Address: 70 East Beaver Creek Rd., #9, Richmond Hill,
Ontario L4B 3B2, Canada.

Qualitest Latin America (Mexico and LATAM Region)

E-mail: ventas@qualitest-inc.com

Qualitest KSA (Regional Office)

Tel: +966 11 500 6659
Address: Level 7, 3.09, District 3, King Abdullah
Financial District, Riyadh, Saudi Arabia

Qualitest Singapore (ASIA PACIFIC Regional Office)

Tel: +65 6393 5480 | E-mail: singapore@qualitest-inc.com
Address: 50 Raffles Place, Singapore Land Tower,
Level 46, Singapore, 048623.

Qualitest Indonesia (Representative Office)

Tel: +62 21 2985 9522 | Fax: +62 21 2985 9889
E-mail: indonesia@qualitest-inc.com
Address: One Pacific Place Level 11, Jl. Jend. Sudirman,
Kav. 52-53, SCBD Area, Jakarta 12190, Indonesia.

Qualitest FZE (Regional GCC/ME Office)

Tel: +971 4 8819252 | Fax: +971 4 8819262
Email: gcc@qualitest-inc.com
Address: Jafza One, BB 1610, Jebel Ali Free Zone,
PO Box 261440, Dubai, UAE.

Qualitest India

E-mail: india@qualitest-inc.com
Address: 15th Floor, Dev Corpora, Pokhran Road No.1,
Eastern Express Highway, Thane, Maharashtra,
Mumbai, 400601, India

