PTARAX CT210 Coating Thickness Gauge

2.4-inch colour display | Bluetooth & app connectivity | Fe / NFe dual technology



PRODUCT DESCRIPTION

The PTARAX CT-210 Series is a professional, portable digital coating thickness gauge designed for accurate, non-destructive measurement of non-magnetic coatings on ferrous substrates and non-conductive coatings on non-ferrous substrates.

Combining magnetic induction (Fe) and eddy current (NFe) measurement technologies, the series is suitable for inspecting paint, powder coatings, protective finishes and other surface treatments across a wide range of industrial applications.

Available with an integrated probe (CT-210) or an external probe (CT-210E), it provides flexible measurement options for automotive refinishing, metal fabrication, protective coating inspection, manufacturing quality assurance and industrial maintenance.

STANDARD DELIVERY

- Main Unit
- Calibration Foils
- Batteries
- Operation Manual
- Factory Calibration Certificate
- Warranty Card
- Protective Carrying Case

TYPICAL APPLICATIONS

- Paint and powder coating inspection
- Protective coating thickness verification
- Automotive paintwork and refinishing
- Metal fabrication and surface finishing
- Manufacturing quality control
- Industrial maintenance and inspection

KEY FEATURES

- Dual Measurement Technology: Magnetic induction (Fe) and eddy current (NFe) for coating thickness measurement on ferrous and non-ferrous substrates.
- Wide Measurement Range: 0–2000 µm
- High Measurement Accuracy: ±(2% r. + 1 µm).
- 2.4-inch Colour Display
- Advanced Statistical Analysis: Mean, minimum, maximum, sample standard deviation and upper/lower limit counts.
- Flexible Calibration: Supports zero-point and multi-point calibration.
- Data Connectivity: Bluetooth, mobile app connectivity and USB data transfer.
- Probe Options: CT-210 with integrated probe; CT-210E with external probe for improved accessibility.

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TECHNICAL SPECIFICATIONS

Feature	Description	
Model	**PTARAX CT-210**	**PTARAX CT-210E**
Probe configuration	Integrated probe	External probe
Measurement principle	Magnetic induction (Fe) / eddy current (NFe)	
Measurement range	0–2000 µm	
Accuracy	±(2% of reading + 1 µm)	
Resolution	0.1 µm (0–100 µm); 1 µm (>100 µm)	
Measurement units	µm, mm, mils, inch	
Calibration	Zero calibration and multi-point calibration	
Statistics	Count, maximum, minimum, mean, sample SD, coefficient of variation, below/above-limit counts	
Graphical display	Curve, bar chart and trend chart	
Data memory	10 × 13 × 10 measurement records (manufacturer notation)	
Probe trigger	Mechanical trigger; 0.4–0.8 N trigger force	
Minimum curvature radius	Convex: 5 mm; concave: 25 mm	
Minimum measurement area	15 mm diameter	
Minimum substrate thickness	Fe: 0.20 mm; NFe: 0.03 mm	
Maximum measurement rate	2 readings per second	
Display	2.4-inch colour screen	
Connectivity	Bluetooth/app support; USB to computer	
Operating conditions	−10 to 50°C; 20–90% RH, non-condensing	
Storage conditions	−20 to 60°C; 20–90% RH, non-condensing	
Power supply	2 × 1.5 V AA alkaline or 2 × 1.2 V AA rechargeable batteries	
Ingress protection	IP40	
Housing dimensions	146 × 76 × 32 mm	
Probe / cable	Integrated	Probe Ø17 × 67 mm; cable Ø3.5 × 1000 mm
Housing / probe material	ABS housing	ABS housing; stainless-steel probe
Weight (without batteries)	Approx. 137 g	Housing approx. 137 g; probe approx. 63 g
Manufacturer-listed standards	CE, RoHS, ISO 2178, ISO 2360	

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