

CT (Coating Thickness Gauge) Specifications

Specifications

CT-FN or CT-F or CT-N	With External Probe (standard version or basic version)
CT-PFN or CT-PF or CT-PN	With Integrated Probe (standard version or basic version)
CT-FN or CT-F or CT-N Basic	Basic Versions without Interface, Statistics, and Data Memory (external probe)
CT-PFN or CT-PF or CT-PN Basic	Basic Versions without Interface, Statistics, and Data Memory (integrated probe)
Measuring Principle	Magnetic Induction Principle (F version) Eddy-Current Principle (N version)
Measuring Range	0 ~ 1,500 μ m (0 ~ 60mils)
Tolerance	\pm [1 μ m + 1%] of reading (\pm [0.04mils + 1%] of reading)
Resolution	0.1 μ m (0.004mils) or < 2% of reading
Display	Back-Light (NB), 4-Digit Alphanumeric
Minimum Measuring Area	5mm x 5mm (0.2" x 0.2")
Minimum Radius of Curvature	CT model : Convex : 3mm (0.12"), Concave : 5mm (0.2") CT-P model : Convex : 3mm (0.12"), Concave : 30mm (1.2")
Minimum Substrate Thickness	Type F : 0.5mm (20mils) Type N : 50 μ m (2mils)
Calibration	Factory Calibration, Zero Calibration, Foil Calibration (NB), Offset-Function (addition or subtraction of a constant value) (NB)
Statistics Program	Number of Readings, Mean Value, Standard Deviation, Maximum and Minimum Reading of Max. 10,000 readings (NB)
Memory	Max. 80 readings, Individual Reading Review, including Statistical Values (NB)
Set Limits	Adjustable & Selectable with Acoustic Alarm System (NB)
Interface	Infrared IrDA Standard (NB)
Power Supply	2 x mignon Alkaline Batteries (AA) 1.5 V (CT model) 2 x micro Batteries (AAA) 1.5 V (CT-P model)
Test Sample Temperature	Max. 150 $^{\circ}$ C (302 $^{\circ}$ C) for Short Period
Ambient Temperature	0 ~ 50 $^{\circ}$ C (32 ~ 122 $^{\circ}$ F)
Dimensions (H x W x D)	140mm x 62mm x 30mm (5.6" x 2.5" x 1.2") (CT model) 99mm x 48mm x 24mm (3.9" x 1.9" x 0.9") (CT-P model)
Weight	200g (7oz) (CT model) Including Batteries 85g (3oz) (CT-P model) Including Batteries
Protection Class	IP 52 (Proof against Dust and Dripping Water)
Standards	DIN, ISO, ASTM, BS
Base Instrument Package	Gauge with Probe, 2 Calibration Standards, 2 Batteries, Soft Carrying Pouch, Operating Manual, Zero Plate(s), Factory Certificate of Calibration
Warranty	A Full One-Year Warranty on Parts and Labor

*NB: Not available for Basic

Optional Accessories

CT-IRA-A Infrared Adapter for a Standard PC and a Printer (RS232)

CT-CS-N Calibration Standards in Various Thicknesses

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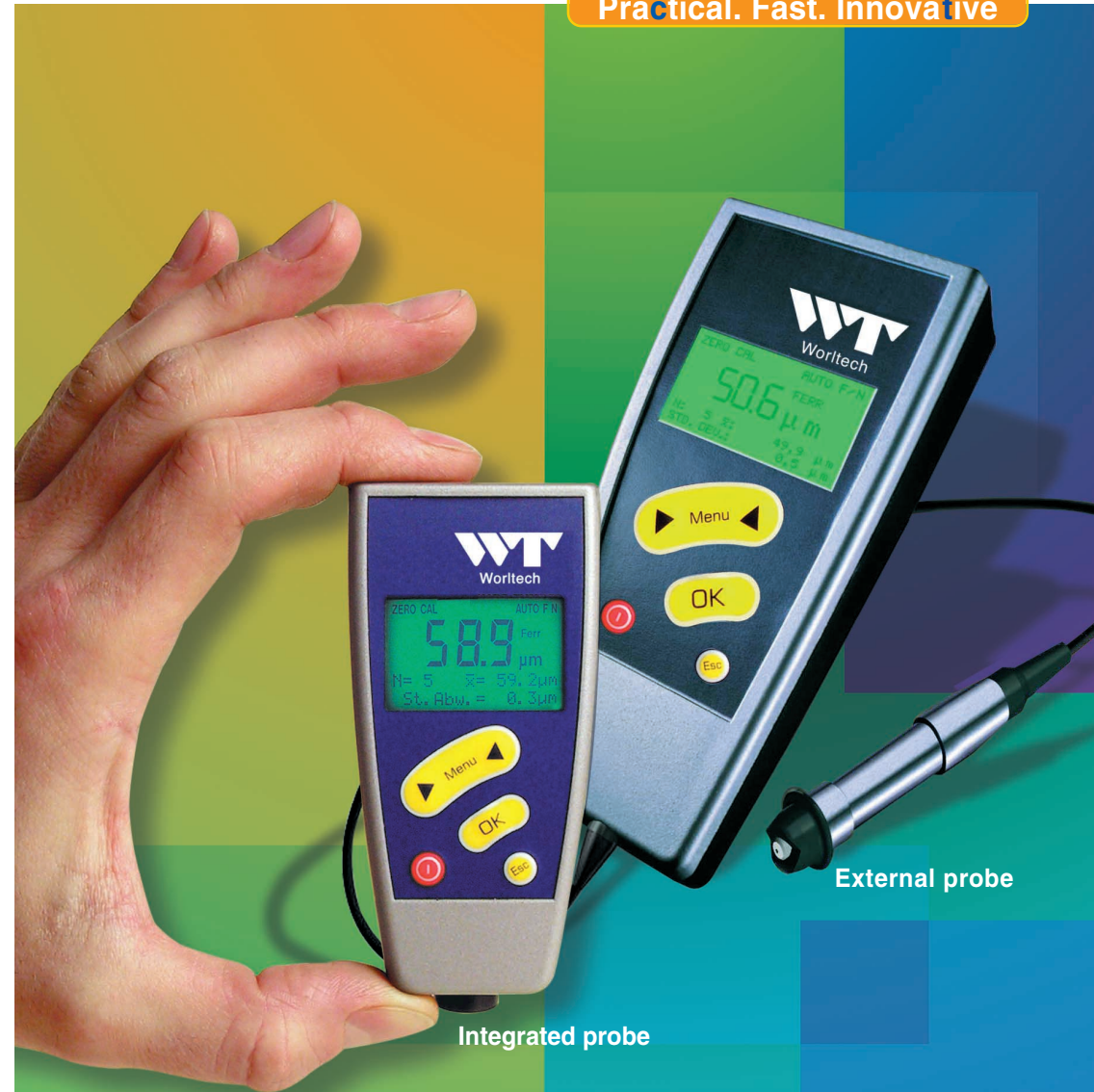
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CT Coating Thickness Gauge

Practical. Fast. Innovative



Integrated probe

External probe



<http://www.worltech.com>



CT (Coating Thickness Gauge)

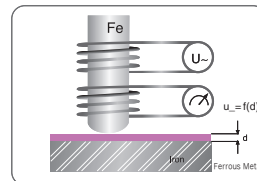
With **CT (Coating Thickness Gauge) series**, fast, accurate, and easy-to-operate measurements can be achieved.

From practical or functional reasons of preventing corrosion to visual or aesthetical purposes, coating thickness represents one of the essential criteria of quality assessment wherever coatings are applied.

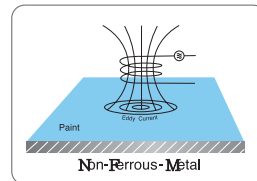
Using **magnetic induction method** and **eddy-current method**, CT series can measure various kinds of coatings on steel, iron, non-ferrous metals, and on stainless steel.

Magnetic Induction Method

Method of measuring the thickness of non-ferrous coatings such as varnish, paint, enamel, chrome, copper, zinc, etc. on steel and iron



Magnetic Induction Method



Eddy-Current Method

Eddy-Current Method

Method of measuring the thickness of all electrically insulating coatings such as varnish, paint, and anodizing coatings on non-ferrous metals and also on stainless steel

CT-F, N, FN

Equipped with a probe with an ergonomically designed cable & Very convenient and useful to take measurements on small parts and in hard-to-get-at places

CT-PF, PN, PFN

Clearly smaller and have no cable & Can be easily carried in the breast pocket of a shirt or in the jacket pocket



Special Advantages of CT Series

- CT Series' probes have an extremely low mass (about 3 grams).
 - there is far less wear and tear on the probe measuring element
 - there is far less chance of damage to sensitive coatings
- Contact pressure of the probe remains almost constant whether measurements are taken from above to down, from the side, or above a user's head.
 - It is possible to take precise measurements on ductile coatings.
- The operation of the CT series is as easy as the one of a mobile phone.
- With protection class IP52, gauges are safe from dust and dripping water.
- FN version automatically recognizes the status of substrate (whether it is ferrous or non-ferrous) and measures correctly due to its dual-functioning sensors.
- No calibration necessary unless required
- Three language option: English, French, German (other languages on request)



Application

- In the automobile and automobile parts industry
- In paint shops and for electroplaters
- For wet and powder coating operations
- For incoming material inspection during production and for final inspection procedures
- In development engineering and for expert assessment
- In laboratory and field operations



You made just a right choice!