

COATING THICKNESS INSTRUMENT



[CTI-Series Brochure](#)
PDF version

CTI For All Metal Substrates



Compare CTI with other coating thickness gages, so you will find that CTI is your best choice. CTI saves you money, improves your quality and gives your customers confidence. Rugged, fully electronic gages use magnetic and eddy current principles to measure coating thickness on both ferrous and non-ferrous metals, accurately and quickly.



CTI-M Series (MF , MN Model)



CTI-S Series (SFN Model)



Memory gages transmit optional printer.

Simplicity

- CTI operates with three keys to make it easy and simple for the user.
- With a very simple and colorful keypad, it is easy to understand, and to operate the instrument.
- There is a brief instruction on the back of the instrument.
- Auto power OFF or manual power ON and OFF key.
- Easy and accurate to any known thickness coating.
- Easy factory reset.
- Easy to switch to micron or to mils.
- Easy function use.
- Available for Ferrous Substrates (SF and MF models), for Non-Ferrous Substrates (SN and MN models) and also for Ferrous, Non-Ferrous Substrates with " T " probe and one gage (SFN and MFN models).

Accuracy

- Certificate of Calibration, showing traceability to NIST included with every gage.
- Matching Calibration Standards and procedures available for every gage.
- Conforms to National and International Standards.
- Range: 0 -1950 microns (77mils) or more optional (up to 3000 microns).
- Resolution: 0.1 micron (0.01 mils) for range of 0 - 99.9 microns (0 -7 mils) and 1 micron (0.1 mils) for range of 100 -1950 microns (7- 77 mils).
- Fixed Tolerance: ±0.8 micron (±0.03 mils).
- Variable Tolerance: 1% of reading.
- Two Point Calibration.
- Full Range Calibration, when CTI calibrates with one calibration shim.
- Automatic Averaging from 2 up to 99 readings for rough or uneven coating applications.
- Indicator light essential in a noisy environment to confirm a reading has been taken.
- Readings unaffected by vibration.
- LCD Display Backlight optional for darker areas could help for more convenience.

Probe Specification

Single-Purpose Probe

Probe

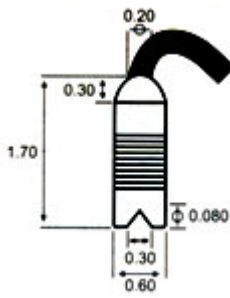
Limits

Dimensions

Minimum Radius for Convex Surfaces

0.3"(7.6mm)

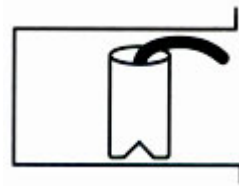
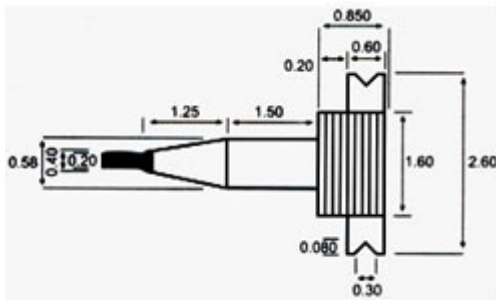
Minimum Radius for



Concave Surfaces

1.6"(40.6mm)

Dual-Purpose Probe



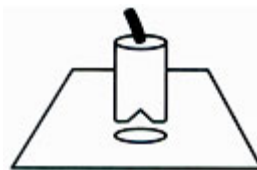
Minimum Headroom for Single Probe

2.3"(57.2 mm)

Minimum Headroom for T-Probe

3.2"(81.3mm)

All dimensions in inches



Minimum Sample Diameter

0.7" (17.8 mm)

Features and Specifications for CTI-S Series (SF- SN- SFN)



- Measure Coating Thickness: Paint, powder, plating, galvanizing, metalizing, plastic, rubber, ceramic, hard chrome, zinc, paper and more on flat, curved and round Ferrous Substrates such steel, cast iron, ferritic and duplex stainless steel, etc.
- Measure Coating Thickness: Anodizing, paint, powder, plastic, laquer and more on flat, curved round Non-Ferrous Substrates such as aluminum, stainless steel, copper, brass, titanium, etc
- Continuous and snap shot measurement technique.
- Convertible to micron and mils.
- Light weight and battery-powered (9 volts alkaline).
- Low battery indicator.
- Battery life: 6 months for 80 readings per day.
- Separate probe equipped connector to unit and assembled probe (option).
- Wear-resistant sapphire probe tip.
- Solvents, acid, oil and dust resistant.
- Quality, high - flex cables resist to breakage.
- Extended cables available up to 75 M (250 ft) for under water or remote measuring.
- Heavy - duty gold - plated locking connector for industrial environments (option)
- All constant pressure probes feature a " V " groove, ideal when measuring on OD's.
- Minimum Thickness Ferrous Substrates: 375 microns (15 mils), Non-Ferrous Substrates 250 m (10 mils).
- Calibration Standard: bare metal test plates plus two precision calibration shims.
- Dimension: 145 x 79 x 38 mm (5.7 x 3.1 x 1.5 in).
- Weight: 340 g (12 Oz).
- Temperature limits: material 0 - 149 C(32 - 300 F), ambient 0-50 C (32 - 120 F)

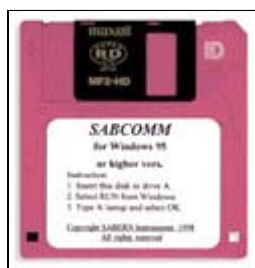
Features and Specifications for CTI-M Series (MF, MN, MFN)



S Series model features plus...

- Memory storage of 26,000 reading in up to 26 groups.
 - Each of the stored readings can be viewed and /or replaced within the gage.
 - High - Low Limits feature audibly and visually alerts when measurements exceed the specific limits.
- Calculates Mean, Max/Min Thickness, and number of measurements by group.
- SSPC PA - 2 capability calculates the average of a set of average readings.
 - Out put reading as they are taken or stored in memory for later download.
 - Supplied with windows - based statistical analysis software compatible with other window application, with no extra charge.
 - Supplied with RS - 232 serial cable for data output to IBM - compatible computer and serial printer or data collector.
 - Supplied with date, time and Name Tag function to record and print (A name tag can be assigned to each memory both for identification).

Sabcomm For Windows



Powerful and easy-to-use Included at no extra charge with Memory models.

- Easily collects readings from the gage
- Allows entry of notes and annotations
- Prints and displays basic Charts and Histograms
- Saves readings in your computer using common formats
- Ideal for monitoring and analyzing coating thickness applications

Packing

All models are supplied with Gage, Separate Probe, Certificate of Calibration, 9 volts Alkaline Battery, Bare Test Plate, Two Plastic Calibration Shims and Instruction Manual - All supplied in a foam - fitted hard plastic carrying case. Memory mode includes data transfer software and cable, with one-year warranty. Based on Manufacture's Standards Traceable to NATA, NAMAS and NIST Standards.

Ordering Information

Models	CTI - S Series			CTI - M Series		
	F	N	FN	F	N	FN
Features						
Coating	Non magnetic	Non conductive	Both	Non magnetic	Non conductive	Both
Metal Substrates	Ferrous	Non ferrous	Both	Ferrous	Non ferrous	Both
Technology	Magnetic induction	Eddy current	Both	Magnetic induction	Eddy current	Both
Range	0 - 1950 µm (0 - 77 mils) Extended range(0-3000 µm)			0 - 1950 µm (0 - 77 mils) Extended range(0-3000 µm)		
Resolution	0.1 µm for 0-99.9 µm (0-7 mils) 1µm for 100-1950 µm (7-77 mils)			1µm for 100-1950 µm (7-77 mils) 0.1 µm for 0-99.9 µm (0 -7 mils)		
Tolerance	±0.8 µm ±1% of reading ±0.03 mils ±1% of reading			±0.8 µm ±1% of reading ±0.03 mils ±1% of reading		
Unit	Micron/Mils Switch able			Micron/Mils Switch able		
Backlight	Yes (Option)			Yes (Option)		

Indicator Light	YES	YES
Average Statistical	YES	YES
Two Point Calibration	YES	YES
Certificate of Calibration	YES	YES
Low battery indicator	YES	YES
Continuous Measurement	YES	YES
High and Low limits	NO	YES
Maximum & Minimum	NO	YES
Date, Time and Name Tag	NO	YES
Memory	NO	YES
Memory Capacity	NO	26,000
Number of Batches	NO	26
Out put for Printer and PC's	NO	YES



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