

# COATING THICKNESS GAUGE

## CODE:iCoat-320

- Uses magnetic and eddy current methods to measure non-magnetic coating on magnetic metals and non-conductive coating on non-magnetic metals.
- Compatible with 10 probe types (F400, F1 series, F5, F10, N400, N1 series, CN02, N10).
- Offers Continuous and Single measurement modes.
- Provides Direct and Group operation modes.
- Includes Mean, Max, Min, Number of Tests, and S.DEV statistical parameters.
- Supports single-point and two-point calibration for error correction.
- Stores up to 495 measurement values, with deletion function.
- Automatically alerts for out-of-limit measurements.
- Power undervoltage indication and audible operational prompts.
- Displays errors on-screen and with beeps.
- Manual and automatic shutdown modes.
- Connects to a computer for data download, storage, and printing.
- Comes with a carrying strap for easy, secure handling.

### STANDARD DELIVERY

<b>Main Unit</b>	1
<b>Probe</b>	1(F1 or N1)
<b>Calibration Foils</b>	5 PCS
<b>Zero Plate</b>	1(Iron or Aluminum)
<b>Instrument Case</b>	1



Probe



Calibration Foils



Zero Plate



F1 (Iron-Based Probe)



F1/90° (Right-Angle Probe)



F10 (Large Range Probe)



N1 (Aluminum-Based Probe)

### OPTIONAL DELIVERY

<b>F1 (Iron-based Probe)</b>	CTP01250F00
<b>F1/90° (Right-angle Probe)</b>	CTP01250F90
<b>F10 (Large Range Probe)</b>	CTP10000F10
<b>N1 (Aluminum-based Probe)</b>	CTP01250N00



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### TECHNICAL SPECIFICATION

<b>Probe Model</b>		F1	F1/90°	F10	N1
<b>Operating Principle</b>		Magnetic			Eddy Current
<b>Substrate Material</b>		Magnetic Metal (Steel, Iron Etc.)			Non-magnetic Metal Substrate (Copper, Aluminum, Zinc, Tin Etc.) Non-conductive Coating (Enamel, Rubber, Paint, Plastic And Etc.)
<b>Coating Material</b>		Non-magnetic Coating (Aluminum, Chromium, Copper, Enamel, Rubber, Paint Etc.)			
<b>Measuring Range (μm)</b>		0 ~ 1250		0 ~ 10000	0 ~ 1250
<b>Low Range Resolution (μm)</b>		0.1		10	0.1
<b>Accuracy</b>	<b>One-point Calibration (μm)</b>	±(3%H+1) ±((1		±(3%H+10) ±((1	±(3%H+1.5) ±[(1
	<b>Two-point Calibration (μm)</b>	~3)%H+1)		~3)%H+10)	~3)%H+1.5]
<b>Measuring Conditions</b>	<b>Min Curvature Radius</b>	1.5mm Flatten		10mm	3mm Φ5mm
	<b>Diameter of the Min Area</b>	Φ7mm	Φ7mm	Φ40mm	
	<b>Critical Thickness of Substrate</b>	0.5mm	0.5mm	2mm	0.3mm
<b>Operating Environment</b>		Temperature: 0°C~40°C			
		Humidity: 20%~90%RH			
		No Strong Magnetic Field			
<b>Power Supply</b>		2×1.5V AA (Size 5)			
<b>Dimensions</b>		125mm×70mm×31mm			
<b>Net Weight</b>		About 400g			

Note: H—Nominal Value