

## INTRODUCTION

The Metravi CTG-01 Coating Thickness Gauge works both on the magnetic induction principle and on the eddy current principle, depending on the type of probe used. You can select the type of probe via MENU system, or it will work automatically.

The gauges conform to the following industrial standards:

GB/T 4956 -1985

GB/T 4957 - 1985

JB/T 8393 - 1996

JJG 889-95

JJG 818-93

## FEATURES

- Measures coating thickness: Non-magnetic coatings (e.g. paint, zinc) on steel; Insulating Coatings (e.g. paint, anodizing coatings) on non-ferrous metals.
- Operates with in-built MENU easily.
- Two measuring modes: CONTINUOUS and SINGLE
- Two working modes: DIRECT and GROUP (4 groups)
- Statistic Display: AVG, MAX, MIN, NO, S.DEV
- One-point calibration and two-point calibration available independently for each working mode.
- Zero calibration is easily done
- Memory for 320 readings (80 for each group)
- Delete single readings and all group readings easily
- High and Low alarms for all working modes
- Low battery and error indications
- USB interface for PC with analysis software
- Disable Auto-Power-off function feature via MENU setting

## APPLICATIONS

This compact and handy gauge is designed for non-destructive, fast and precise coating thickness measurement. The principal applications lie in the field of corrosion protection.

It is ideal for manufacturers and their customers, for offices and specialist advisers, for paint shops and electroplaters, for the chemical, automobile, ship-building and aircraft industries and for light and heavy engineering.

The CTG-01 gauge is also suitable for laboratory, workshop and outdoor use.

The probe can work on both principles, magnetic induction and on the eddy current principle. The same probe works for coating measurement both on ferrous and non-ferrous metal substrates. It is adaptable to specific tasks: ie. it can be used on special geometries or on materials with special properties.



**Description of the Gauge**

For measurement on steel substrates, the gauge works on the Magnetic Induction principle, and for measurement on non-ferrous metal substrates, it works on the Eddy Current principle. Measurement values and user information are displayed on the LCD, The backlight ensures easy reading of screen data even in dark conditions.

**Two different operating modes are available:**

DIRECT mode is recommended for simple, quick, occasional measurements. It provides statistical analysis. Single values are not saved. The statistical analysis program can evaluate upto 80 readings. GROUP mode permits measurement and storage of readings in a free programmable memory. A maximum of 400 readings and 4 series of measurements can be analysed according to various statistical criteria.

**Standard Accessories**

Gauge with two 1.5V Batteries, Hard Carrying Case, Operating Manual, Steel and Aluminium substrates for calibration, USB Connecting Cable, Software CD for Windows



**Probe**

The Probe system is spring-mounted within the probe sleeve which ensures safe and stable positioning of the probe and constant contact pressure. A v-groove in the sleeve of the probes facilitates reliable readings for small cylindrical parts. The hemispherical tip of the probe is made of hard and durable material.

**SPECIFICATIONS**

Sen	FERROUS	NON-FERROUS
Working principle	Magnetic Induction	Eddy Current
Measuring range	0~1250um 0~49.21mils	0~1250um 0~49.21mils
Guaranteed Tolerance (of readings)	0~850 um (+/- 3%+1um) 850um~1250 um (+/- 5%)  0~33.46 mils (+/- 3%+0.039mils) 33.46um~49.21mils (+/- 5%)	0~850 um(+/- 3%+1.5um) 850um~1250um (+/- 5%)  0~33.46mils (+/- 3%+0.059mils) 33.46um~49.21mils (+/- 5%)
Precision	0~50um (0.1um) 50um~850um (1um) 850um~1250um(0.01mm)  0~1.968mils (0.001mils) 1.968mils~33.46mils(0.01mils) 33.46mils~49.21mils(0.1mils)	0um~50um(0.1um) 50um~850um(1um) 850um~1250um(0.01mm)  0~1.968mils (0.001mils) 1.968mils~33.46mils(0.01mils) 33.46mils~49.21mils(0.1mils)
Minimum curvature radius	1.5mm	3mm
Diameter of Minimum area	7mm	5mm
Basic critical thickness	0.5mm	0.3mm
Working temperature	0°C~40°C(32°F~104°F)	
Working relative humidity	20%~90%	
Size(H X D X W)	110 X 50 X 23	
Weight	100g	

\*Technical Specifications & Appearance are subject to change without prior notice