TA522A

COATING THICKNESS GAUGE

Users Manual



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Pack #: PB01-0316

Dear customer,
*Thank you for choosing **TASI**,*
If there are any technical questions, please contact:
http://www.china-tasi.com

Introduction

The TA522A coating thickness gauge is a professional portable non-destructive testing instrument designed for fast and accurate measurement of non-conductive coatings on metal substrates. Utilizing both magnetic induction and eddy current measurement technologies, it automatically identifies ferrous (Fe), non-ferrous (NFe), and galvanized steel (Fe+Zn) substrates.
The TA522A an ideal solution for automotive inspection, metal fabrication, manufacturing, surface treatment, quality control, and industrial maintenance applications.

Safety Information

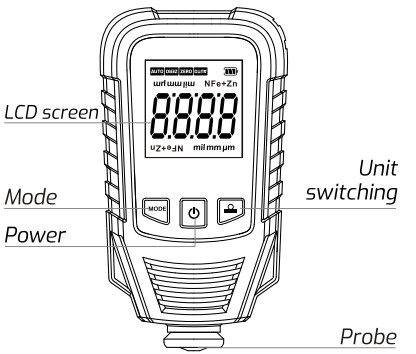
To prevent eye damage and personal injury, please read all safety information carefully before you use the product.

⚠ Warning

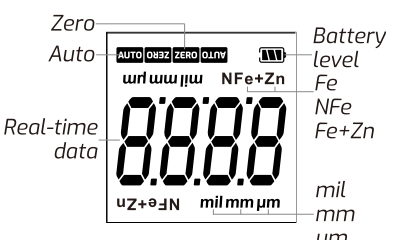
- *Please check the product before use. Do not use if the product is damaged;*
- *Please clear the attached substances on the surface before measuring, such as dust, grease and corrosion products, and pay attention not to remove the covering substances;*
- *When measuring, do not close to the edges, hole, internal corners and etc. ;*
- *Do not use this product in an environment with explosive gas, flammable vapor and dust;*
- *Replace the batteries when the " ▭ " symbol shows to prevent incorrect measurements;*
- *To prevent battery leakage, please remove the battery if the product is not used for an extended period of time, or if stored in temperatures above 50°C;*
- *Only authorized technicians are allowed to repair this product.*

Product

Overview



Display

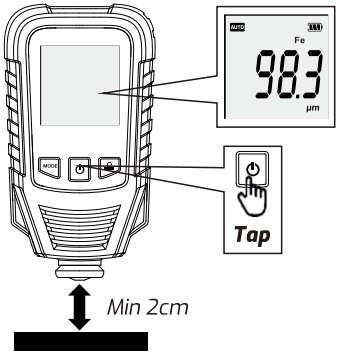


Technical Specifications

Measuring Principle	Fe: Magnetic induction; NFe: Eddy currents
Range	0 ~ 2000μm / 0 ~ 2mm / 0 ~ 78mil
Accuracy	±(3%+1μm)
Resolution	0.1μm(<100μm); 1μm(≥100μm); 0.001mm(≤2mm); 0.001mil(<10mil); 0.01mil(10 ~ 78mil)
Display	VA color display, 4 digits, max 8888
Calibration Method	Zero calibration
Measurement Unit	μm, mm, mil
Fe Putty Range	0 ~ 1000μm
Fe+Zn Range	3 ~ 500μm
Minimum Radius of Curvature	Convex 5mm; Curvature 25mm
Minimum Substrate Thickness	Diameter 15mm
Min thickness Of Substrate	Fe: 0.30mm; NFe: 0.05mm
Sampling Rate	2 times/s
Auto Screen Rotation	LCD with 180° Auto Rotation
Low Voltage Prompt	✓ (below 2.4V)
Working Environment	-10 ~ 50°C, max 90%RH, indoor altitude<2000m
Storage Environment	-20 ~ 60°C, max 70%RH (battery removed)
Screen Size	30 x 30mm
Power	2 x 1.5V AAA
Product size	104 x 57 x 26mm
Product Weight	Approx. 70g (excluding batteries)

Operation

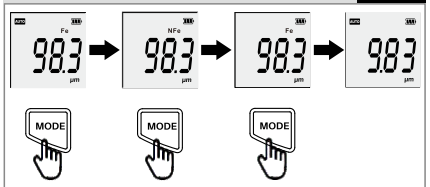
Measuring Method 1



μm / mm / mil 2

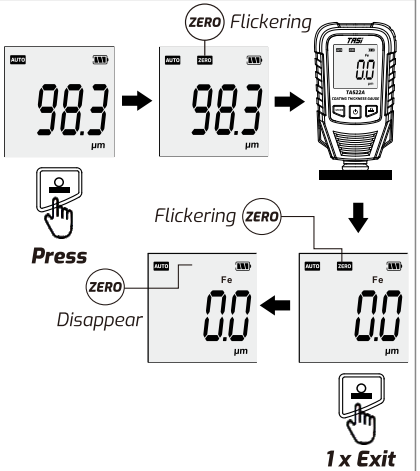


Switch Probe Mode 3



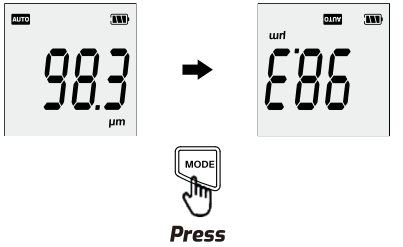
Note: Recommended to use the automatic (AUTO) mode with non-special use scenarios.

Zero Calibration 4

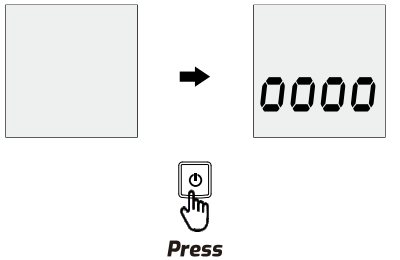


Note: To ensure the accuracy when performing zero calibration on the rough surfacet, multiple positions can be measured to ensure accuracy.

Rotatable Screen 5



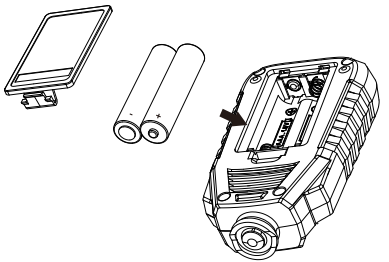
System Reset 6



Auto-Off 7



Battery Replacement 8



Warranty:

This product is warranted to be free from defects in materials and workmanship under normal use for a period of one year from the date of purchase. This warranty does not cover damages caused by improper use, unauthorized repairs, or physical damage.

To obtain warranty service, please contact the dealer or manufacturer to receive return authorization. Once authorized, return the product to the designated service center for evaluation and repair.

Thank you for choosing our product. We are committed to your satisfaction.

TASI CE

Product:	*COATING THICKNESS GAUGE*
Model:	*TA522A*
Date:	*30/06/2026*

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