

MODEL: GT230

COATING THICKNESS GAUGE **INSTRUCTION MANUAL**







50

Measured data (Figure 11)

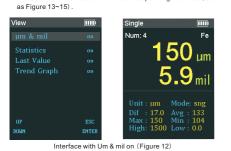


Storage (Figure 10)

9. View:

Turn on um&mil switch and measured results of two units are simultaneously displayed under measurement interface (Such as Figure 12).

Turn on other switches and press UP/DOWN button under measurement interface to view the corresponding interface (Such



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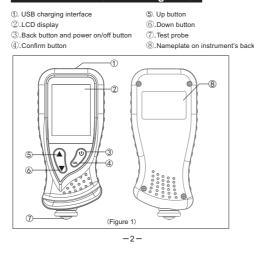
A.Introduction

This product is a color-screen portable coating thickness gauge with highdefinition display, which can guickly, non-destructively and accurately me-asure non-magnetic coating thickness on magnetic metal substrates and non-metallic coating thickness measurement on non-magnetic metal sub-strates. At the same time it can automatically identify magnetic metal substrate and non-magnetic metal substrate, and is widely used in manufacturing, metal processing industry, chemical industry, commodity inspection and other testing areas.

B.Functions

- Menu operation and color-screen HD display.
- ► Thickness measurement of non-magnetic coating on magnetic metal substrate surface and non-metallic coating on non-magnetic metal substrate
- Two measurement methods: single measurement, continuous measurement.
- Basic calibration and Zero-point calibration available
- Metric/imperial unit and storage function. Screen rotation, charge protection, multi-interface displays, screen brightness selection.
- Automatic shutdown

C.Name of Parts (Such as Figure 1)



D.Operation manual

2.

as

k. High limit

1.Measurement instruction: After startup, lightly press test probe on the substrate to be tested under measurement interface, and the measured value is coating thickness of substrate

Measurement interface (Such Eigure 2): Mode: single (sng) / continuous (ctn) Battery power indicator Measurement counting Substrate: Fe/nFe	a single (c Num: 3 e 133 µr
Display zone of measured	
value	f — Unit : um Mode: si
Unit : um/mil	g
Difference value of	iMax : 146 Min : 10
measurement	k
Average value	Measurement interfac
Maximum value	(Figure 2)
Minimum value	(<u>g</u>)
High limit L. Low limit	

(Figure 4)

-b

-d

-h

3. Enter menu interface:

 \blacktriangleright Under measurement interface, short press " υ " button to enter menu interface, which displays button prompt afterwards (Figure 3):

Press "OK" button under measurement interface for quick entry of measured

data menu (Figure 4):

Horizontal screen display

(Figure 5)



Num: 3

(Figure 6)

Working voltage	DC 3.7V (Lithium battery capacity 1000mAh)	
Size	52.9*26*117mm	
Weight	102. 4g (including battery)	

Reminder: This instrument is equipped with rechargeable battery. If you can't turn on the product, please use it after charging (power adapter specification: DC 5V/1A, namely ordinary mobile phone charger). This instrument is not shipped with power adapter

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F.Menu Chart (Such as Figure17)

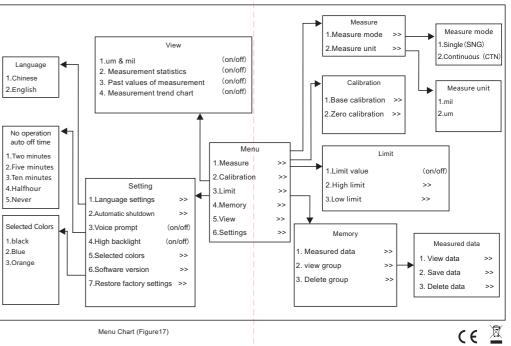
G.Attention 1.Keep the probe away from the measured substrate when starting up. 2."-OL-"indicates that the value exceeds

measurement range. 3.Do not press the sensor with your finger or other object into the instrument, because this operation may damage the sensor parts and the instrument. (Figure 18)



A Specific Declarations: Our company shall hold no any responisibility resulting from using output from this product as an direct or indirect evidence. We reserves the right to modify product design and specification without notice.

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▶ Long press " 🔺 " button under measurement interface to rotate screen

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Vertical screen display

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Measurement selection: Enter measurement sub-items to operate.

5. Functions in Menu (Such as Figure 7) :

Functions in Menu (Figure 7)

1. Calibration Operation (1) .Basic calibration:

- a. Prepare the calibration plate and calibration base, enter calibration menu and select basic calibration
- b. According to the instrument instruction, place the corresponding calibration plate for calibration. c. After calibration is completed, "calibration complete" will show up at the
- bottom of the screen and the instrument will return to the previous interface. d. After the calibration is complete, you can go back to measurement interface and perform measurement.
- e.Magnetic and non-magnetic metal base calibration do not affect each other

Note: When performing basic calibration, press the instrument onto substrate when the arrow is down, and remove it when the arrow is up.

(2).Zero Calibration:

a. Enter calibration menu and select zero calibration.

b. Lightly press the instrument onto substrate.
c. The instrument will automatically calibrate to zero point.

- d. The instrument displays the previous interface after calibration is done.
- e. After calibration is complete, you can go back to measurement interface and perform measurements.

- 7. Limit value:
 If limit value switch is on, when the measured value is above high limit or below low limit, the value will turn red and the

8. Storage (Such as Figure 10):

Delete: under delete interface, delete saved data by short pressing OK button to delete single datum, or long pressing OK button to select all data and delete.

corresponding icon will appear (Such as Figure 8). If limit value switch is off, value of normal measurement will

be displayed (Such as Figure 9)

Measured data: users can view, save and delete measured data. ▶ View: view saved data (Such as Figure 11).

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Measurement statistics

(Figure 13)



um: 21

Past values of measurement

(Figure 14)

Enter setting menu to perform corresponding operations. (Such as Figure 16)

E.Technical Parameters

Measurement range	0~1300um/51mil		
Resolution	(0.1µm(<100µm),1µm(≥100µm))/0.1mil		
	≤150µm ±5µm		
Measurement error	>150µm ±(3%H+1µm)		
Minimum diameter of magnetic metal substrate		12mm	
Minimum thickness of magnetic metal substrate		0.5mm	
Minimum radius of curvature for magnetic convex substrate		2mm	
Minimum radius of curvature for magnetic concave substrate		11mm	
Minimum diameter of non-magnetic metal substrate		50mm	
Minimum thickness of non-magnetic metal substrate		0.5mm	
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Jum: 2'

Jum: 21



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