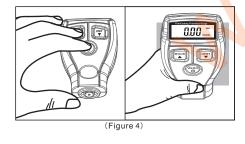
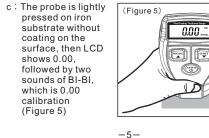


Attention: the diameter of substrate should be longer than 50mm.iron substrate will be taken as an example to illustrate the basic calibration process in the following part (Figure 3)

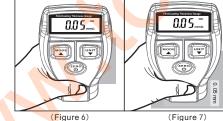


b : Press MODE button to maintain, then press power button, after LCD full-screen display follows a BI sound. LCD screen shows 0.00, and the lower right part of LCD shows indicator C. which means entering into calibration interface.(Figure 4)

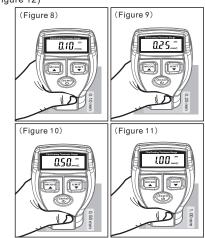




d : Remove the probe, and LCD shows 0.05mm. Now start the second calibration byputtingthe 0.05mm calibration film on the ironsubstrate and pressing the probe lightly on the ironsubstrate. After two sounds of BI-BI, the second Calibration point is finished. (Figure 6, Figure 7)



Remove the probe, the LCD shows the third data, do calibration in turn according to the previous method. Until the last calibration film is calibrated, LCD displays OVER, the instrument turns off after two sounds of BI-BI, and the basic calibration is complete. (Figure 8, Figure 9, Figure 10, Figure 11, Figure 12)





- f: After basic calibration is completed, the coating thickness of the same material as the calibrated substrate can be measured.
- 2. Zero calibration: after turning on the instrument in the air, choose User mode and then gently press the probe on the surface of substrate. Short press ZERO button, LCD displays 0.00, and zero calibration is completed.
- 3.Two-point calibration
- a.First carry out zero calibration
- b.Take a calibration film (such as 1.00mm), measured value of which is 1.05mm. Do not remove the probe. pressingincrease or decrease buttonof calibration data, until LCD displays 1.00mm. Remove the probe and two-point calibration is completed.

H、Other Items

- Attention:
- 1. Factors influence accuracy of measurement and related instruction:
- a. Metal thickness of substrate: Each instrument has a critical thickness for a substrate metal. If the thickness is greater than this value, the measurement will not be affected by thickness of substrate metal. Refer to requirementsonproduct specifications for critical thickness of the instrument (≥0.5mm). b.Edge effect: The instrument is sensitive to the
- steep change of the specimen's surface shape. So it is unreliable to make measurement near the edge or inner corner of the object under measurement.
- c.Curvature: The curvature of object under measurement has influence on the measurement. This influence always increases significantly as the curvature radius decreases.
- d.Surface roughness: Surface roughness of substrate metal and coating has influence on measurement

As the degree of roughness increases, the influence increases. Rough surfaces can cause system errors and accidental errors. In each measurement, users should conduct moretimes of measurement at different places to overcome this kind of accidental error. If substrate metal is rough, users must take a few spots on uncoated substrate metal with similar surface roughness to calibrate zero point of the instrument; or dissolve and remove coating with a solvent that does not corrode substrate metal, then calibrate zero point. e.Surface cleanliness: Before measurement, any

attached substances such as dust, grease and corrosive substances on the surface should be removed, but do not remove any coating material f. The instrument cannot distinguish iron substrate from nonferrous substrate.

g. The instrument can only measure non-metallic coating

I、Notice for users

- 1. Since Car mode has built-in data, the user can no longer conduct calibration. Car mode can directly measurecoating thicknessof iron, aluminum, zinc substrate, suitable for measuring thecoating thickness of cars.
- 2、Under User mode, after calibrating metal substrate, user can only measure coating thickness of this metal's surface, not other metals. For example, if you calibrate an iron substrate, you cannot measure coating thickness of aluminui substrate
- 3. User mode calibration will not influence Car mode.
- Car mode is default factory setting.
 Default factory setting uses iron substrate to calibrate User model
- 6、Calibrating under User model, diameter of substrate should be≥50mm, substrate thickness should be≥0.5mm

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

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