

## **YUEQING EZITOWN ELECTRIC FACTORY**

## **HC Series Digital Coating Thickness Gauge**

ITEM NO.

HC-200 HC-210 HC-220





Patent NO.:ZL201230277872.4

**Packing Box** 

HC series of coating thickness tester is to use the eddy current thickness method and electromagnetic thickness method of portable coating thickness gauge. It can quickly, no damage and precision to coating, cladding material thickness measurement. Both can be used in the laboratory, also can be used in the engineering field. it Can be widely used in manufacturing, metal processing industry, chemical industry, commodities inspection etc. Measuring magnetic metal substrate condition (such as steel, iron, alloy and hard magnetic steel, etc.) on nonmagnetic layer thickness (such as zinc, aluminum, chromium, copper, rubber, paint, etc.) and Nonmagnetic metal substrate (such as copper, aluminum, zinc, tin, etc.) on the conductive layer thickness (such as rubber, paint, plastic, anodic oxidation film, etc.)

#### Main Characteristics

- 1. Using both the magnetic and eddy current thickness method, as well as measuring the thickness of the magnetic non-magnetic coating on metal substrates can measure the non-magnetic again the thickness of the conductive coating on metal substrates;
- 2. With two measurement methods: continuous measurement methods (pieces CONTIN E) and word measurement mode (SINGLE);
- 3. With two works:direct mode(Direct) and burst mode(App1);
- 4. With five statistics:MEAN,MAX,MIN,NOS.DEV;
- 5. Two methods can be used together for calibration, basic calibration method and can be used to modify the system error of measuring head;
- 6. With functions of storage:in storage 500 observed value;
- 7. Delete function: in the measurement of single suspicious data to delete, can also delete all data storage area for the new measurement;
- 8. Can be set limits:the measured value beyond the limit alarm automatically; And can be used histogram analysis of a batch of measurements;
- 9. Have print function: can print measurement, statistics, limit, histogram;
- 10. Can have a communication with a PC with: measurement, statistics can be transfer to the PC, so that the data for further processing;
- 11. With functions of power supply undervoltage instruction;
- 12. Operating projects hum tips;
- 13. Have error function, through the screen or hum errors;
- 14. two kinds of shutdown mode: Manual shutdown mode and automatic shutdown mode:
- 15. Dimension: 140×65×30mm
- 16. Weight: 0.2kg

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### Series spec parameters

| Measurir                      | ng head type                        | HC-210(Magnetism F)                                                                  | HC-220 (Eddy current N)                       | HC-200(Global function FN)                    |  |
|-------------------------------|-------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|--|
| Operating Principle           |                                     | Magnetic induction                                                                   | Whirlpool                                     | Magnetic induction+whirlpool                  |  |
| Measurement Range(μm)         |                                     | 0~1250                                                                               | 0~1250<br>Chromium plating on<br>copper(0~40) | 0~1250<br>Chromium plating on<br>copper(0~40) |  |
| Lower limit of resolution(µm) |                                     | 0.1 u m (0-100) , 1 u m (100-1250)                                                   |                                               |                                               |  |
| Display NO.                   |                                     | Background, the four books, according to two lines of statistics show                |                                               |                                               |  |
| Calibration                   |                                     | Manufacturer for the calibration, zero calibration, the calibration foil calibration |                                               |                                               |  |
| Display NO.                   | One point calibration(µm)           | ±(3%H+1)                                                                             | ±(3%H+1.5)                                    | ±(3%H+1)±(3%H+1.5)                            |  |
|                               | Two point calibration(µm)           | ±[(1~3%H)+1]                                                                         | ±[(1~3%H)+1.5]                                | ±[(1~3%H)+1]±[(1~3%H)+1.5]                    |  |
| Test Strip                    | Minimum radius of curvature(µm)     | Convexity 1.5mm,Camber concave 3mm                                                   |                                               |                                               |  |
|                               | Diameter of the minimum value(mm)   | Ф7                                                                                   | Ф5                                            | Туре FФ7,Туре NФ5                             |  |
|                               | Critical thickness of substrate(mm) | 0.5mm                                                                                | 0.3mm                                         | Type F 0.5mm, Type N0.3mm                     |  |
| Operating Environment         |                                     | Temperature: 0°C-40°C                                                                |                                               |                                               |  |
|                               |                                     | Humidity: 20%RH-90%RH                                                                |                                               |                                               |  |
|                               |                                     | Without a strong magnetic field environment                                          |                                               |                                               |  |
| Overall Dimension             |                                     | 137×66×23                                                                            |                                               |                                               |  |

| Coating                                                                        | Organic materials and other non-magnetic coating (such as: paint, coatings, plastics, enamel and anodized, etc.) | Non-magnetic non-ferrous<br>metal layer (such as:<br>chromium, zinc, aluminum,<br>copper, tin, silver, etc.) |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Magnetic metals such as iron and steel                                         | F type probe<br>measurement range:<br>0 ս m-1250 ս m                                                             | F type probe<br>measurement range:<br>0 ս m-1250 ս m                                                         |
| Such as copper, aluminum,<br>brass, tin, zinc and other non-<br>ferrous metals | N type probe<br>measurement range:<br>0 u m-1250 u m                                                             | N type probe is used only for chromium plating on the copper measurement range:  0 u m-40 u m                |

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