COATING THICKNESS GAUGE

DESCRIPTION

This compact gauge can be used for non-destructive coating thickness measurement of non-magnetic coatings, e.g. paint, enamel, chrome on steel, and insulating coatings, e.g. paint and anodizing coatings on non-ferrous metals.

The internal probe can work on both principles, magnetic induction and the eddy currents. The probe can automatically detect the substrates type (Magnetic or not), and calculate the coating thickness and display it fast.

There are five data groups, and readings will be automatically stored to memory for general groups (Not for direct group). Each group has individual statistics, alarm limit settings and calibration. User can recall and delete specified readings easily.

User does all operations via standard menu so easily. User can press the CAL button to start calibration freely.

FEATURES

A. 128*128 dot matrix LCD display, standard menu operations;

B. Two measure mode: single and continuous;

C. Two group mode: direct (DIR) and general (GEN), readings will be lost when power off in direct mode, and not be lost in general mode. 80 readings can be stored for each group;

D. Zero point calibration and multi-point calibration (up to 4 points) for each group;

E. User can recall, delete specified readings, or delete group readings;

F. Statistics display: mean, minimum, maximum and standard deviation;

G. Three probe mode: auto, magnetic and eddy current; (only for *SR2800FN*)

H. User can set high or low limit alarm for each group;

I. Power off automatically;

J. USB interface to data transmission;

K. Low battery and error indication;

SPECIFICATIONS

1. Measuring principle:

Magnetic induction (F-probe) (SR2800F),

eddy current (N-probe) (SR2800N),

Magnetic induction (F-probe) and eddy current (N-probe) (SR2800FN);

2. Measuring range: 0 to 1300um (0 to 51.2mils);

3. Accuracy: ± (3% of readings+2um);

± (3% of readings+0.078mils);

4. Resolution: 0um~999um (1um), 1000um~1300um (0.01mm);

0mils~39.39mils (0.01mils), 39.4mils~51.2mils (0.1mils);

5. Calibration: One to four point calibration, zero calibration;

6. Data Group: One direct group (readings not be stored to memory), four general group (readings can be stored), and each group have individual statistics, alarm settings and calibration;

7. Statistics: No. of readings, mean, minimum, maximum and standard deviation;

8. Units: um, mm and mils;

9. Alarm: User can set the high/low alarm, and alarm icon displayed on LCD when over the limit;

10. Minimum curvature radius: convex 1.5mm(59mils) and concave 25mm(984mils);

11. Minimum measuring size: Diameter 6mm(236mils);

12. Minimum thickness of substrate: F-probe: 0.5mm(0.02"), N-probe: 0.3mm(0.012");

13.Computer interface: Download data via USB interface;

14. Power supply: Two 1.5v AAA battery; (NOT INCLUDED IN DELIVERY)

15. Operation temperature: 0°C to 40°C(32°F to 104°F);

16. Storage temperature: -20°C to 70°C(-4°F to 158°F);

17. Size: 110mm*53mm*24mm (4.33"*2.09"*0.94");

18. Weight: 92g (3.24oz);

STANDARD CONFIGURATION

Item	Quantity
Gauge	1
Aluminum substrate (for SR2800N&SR2800FN)	1
Standard foil	5
1.5V AAA battery (not included in delivery)	2
Technical manual	1
USB cable	1
Package (Gift box)	1