

OSC 92ET211 Eddy Current Thickness Tester

<Features>

- It can measure most of coatings on the metal and non-metal by non-destructive method in a short time.
- Measurement and calibration are easy by using PC.
- Measurement mode can be selected, which makes it easier to measure the small parts, like the top of screw, wire material, or die-casting products.
- Automatic acquisition mode takes the reading automatically when the probe is touched and released from the measuring object.
- 70 kinds of calibration curves are saved as standard. When a new calibration curve is needed, it can be set up by using thickness standards.
- Measurement unit : mm, um, mil, MI, A
Unit can be changed anytime and the measurement value is changed automatically.



<Specifications for main unit>

| | OSC 92ET211(main unit) |
|--------------------|---|
| Measurement mode | Thickness measurement |
| Channel | 40 channels |
| Data volume | 100,000 data |
| Statistics process | Max. value, Min. value, average value, standard deviation |
| | histgram, up-low limited value setting |
| Power supply | AC100-240V±10%, 50/60Hz |
| Weight | Approx. 3.0kg (main unit) |
| Dimension | 280(W) x 230(D) x 88(H)mm (main unit) |

* Analog type of eddy current thickness tester is also available. Please contact us for the detail.

<Specifications for the probe>

| | OSC 92ET211(probe) |
|----------------------|--|
| Effective range | φ 5mm (using minute probe : φ 3mm) |
| Length of probe code | 900mm |
| *Probe type | MP type : for flat, uneven curved surface (standard) |
| | MPG type : for flat, uneven curved surface (w/guide) |
| | SM type : for flat, uneven curved surface (minute) |
| | RP type : for concave curved surface, inside surface of pipe |
| | SR type : for inside surface of small diameter pipe |
| Probe guide | # 180 : for flat surface measurement |
| | # 120 : for φ 25-60mm for convex curved surface |
| | # 90 : for under φ 30mm for convex curved surface |

* Each probe type has four kinds depends on the thickness, A, B, C and D

<Combination for plating and substrate>

| Plating | Foundation | Measurement range and probe type | | | |
|--|--------------------------------------|----------------------------------|---------|----------|----------|
| Non-metal (Almite, paint etc.) | Non-magnetic metal (Al, Cu, etc.) | 1-100, D | | | |
| | | 50-300, C | | | |
| Cu or Ag | Fe | 0.5-5.0, D | 3-10, C | 5-20, B | 10-160 A |
| | Non-metal (ABS, Epoxy, etc.) | 0.5-5.0, D | 3-11, C | 10-80, B | 50-160 A |
| Zn | Fe | 1-14, D | 8-30, C | 15-50, B | 30-100 A |
| Ni | Fe | 1-12, C | 6-22, B | 18-80, A | - |
| | Non-metal | 1-12, D | 5-25, C | - | - |
| Metal deposition (Au, Cu, Al, etc.) | Non-metal | 50 Å-1 μm, D | 1-5, D | - | - |
| | | | | - | - |