

CMI233

Hand Held Coating Thickness Gauge With The Diversity Of Bench Top Instruments

Description :

The CMI233 gauge combines state of the art electronics and software with a compact, rugged design, suited for some of the most hostile work environments.

The CMI233 gauge provides a reliable means for performing accurate, efficient inspection of coating/plating thickness at the lowest cost. Measurements can be taken in automatic or continuous modes. A scanning option compensates for uneven or textured substrate materials, enhancing performance of gauge repeatability and reproducibility. A large memory capacity for over 12,000 readings can accommodate even high usage applications. Oxford Instruments offers a worldwide network of support and service. Like all our instruments, the CMI233 is backed by our guarantee of superior service before and after you order.





| RS-232 port with adjustable baud rate permits download to computer | |
|---|---------------------|
| AC socket | |
| Probe port has automatic probe recognition | 01 153 |
| Easy to read 3 digit LCD display with floating decimal point | lead L |
| Reads in µm or mils at the push of a button | |
| Selects statistics for display on LCD | Wall trees that the |
| ON/OFF (Automatically switches OFF after 1 minute to conserve power) | |
| Low battery indication | |
| Automatic drift compensation for all built in calibrations | |
| Toggles between Continuous and Automatic modes (Continuous mode permits rapid scan before committing readings to stats storage | |
| Clears last reading or accumulated statistics | CMI200 |
| Select memory location | The second second |
| Sets Hi/Lo limits | |

Probe Selector Chart

| Probe | Probe | Probe | Min. Radius | Min. Radius | Working Height | Min. Measurement | Min. ID Rt. | Min. base |
|--------------|-------------|--------|-----------------|------------------|----------------|------------------|---------------|-----------------|
| Туре | Shape | Mode | Convex Cylinder | Concave Cylinder | 2 2 | Area | Angle | Thickness(mils) |
| Eddy Current | Straight | ECP. | 500"(11.2mm). | 440"(11.2mm) | 4.0"(102mm) | .360" (9.2mm) | N/A | 12 (0.3mm) |
| Eddy Current | Right Angle | REP-3 | N/A | N/A | N/A | .360" (9.2mm) | .575"(14.6mm) | 12 (0.3mm) |
| Magnetic | Straight | SMP-2. | 060"(1.6mm). | 250"(6.4mm) | 4.25"(108mm) | .375" (9.6mm) | N/A | 12 (0.3mm) |
| Magnetic | Right Angle | RSMP-2 | WA | N/A | N/A | .375" (9.6mm) . | 800"(20.4mm) | 12 (0.3mm) |



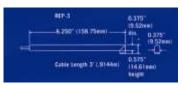
CMI233

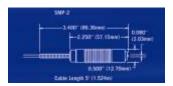
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Specifications:

| Measurement methods: | |
|------------------------------|--|
| Magnetic Induction: | Conforms to method ASTM B499 & B530, DIN 50981, ISO 2178 and BS |
| Wagnetic madetion. | 5411 Parts 9 & 11 |
| Eddy Current: | Conforms to methods ASTM B244 & B259, DIN 50984, ISO 2360 and |
| 20.0) 20.1.2.1. | BS5411 Part 3 |
| Accuracy: | +/- (1% + 0.1µm) relative to reference standards |
| Measurement Ranges: | Magnetic: 0 - 120 mils (0 - 3.01 mm), Eddy Current: 0 - 60 mils (0 - 1.52 mm) |
| Resolution: | 0.01 mils (0.25 µm) |
| Memory Capacity: | 12,400 stored readings |
| Min. ferrous and non | , and the graph of |
| ferrous substrate thickness: | 12 mils (305 µm) |
| Dimensions: | 5 7/8" (L) x 3 1/8" (W) x 1 3/16" (D) (14.9 x 7.94 x 3.02 cm) |
| Weight: | 9 oz (0.26 kg) including battery |
| Units: | Automatic conversion between imperial and metric with a keystroke |
| Battery: | 9V dry or rechargeable |
| Battery Life: | Continuous Hours - 9V Dry: 50 Ferrous, 45 Non-Ferrous, |
| - | Rechargeable: 11 Ferrous, 10 Non-Ferrous |
| Statistical Package: | Optional CMI SmartStats provides a full statistical program and a report writer |
| | (SmartDocs) |
| Statistical Display: | Number of readings, mean, standard deviation, high and low reading, |
| | Histogram and Cpk available with printer or serial output |
| Interface: | RS-232 Serial port output with adjustable baud rate, for a printer or |
| | PC download |
| Printer: | Optional 40 column thermal printer |
| Display: | Three digit LCD display, 1/2" (1.27cm) character height |
| Keypad: | Sealed membrane. Enhanced units - 16 keys |
| Scanning feature: | Automatically average readings over a designated scan time(or can supply |
| | actual date hi-lo values) |
| | • Measure etched traces as thin as 204 µm (8mils) without line width standards |
| | Store 9,690 measurements (with optional date and time stamp) |
| | Custom calibrated for your application using Oxford Instruments certified |
| | reference materials |
| | Customizable for other applications |
| | Static or continuous mode measurement |
| | Powered by regular AA batteries |









Item Code: ST-CMI 233



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