

COATING THICKNESS GAUGE

PART No. 5401-TC11

TEMPERATURE
COMPENSATION

DATA
OUTPUT

- Magnetic induction probe (FM) measures the thickness of non-magnetic coating and non-metallic coating on magnetic metal substrate.
Substrate: steel, iron, alloy, hard magnetic steel, etc.
Coating: zinc, aluminum, chrome, copper, rubber, paint, etc.
- Eddy current probe (NM) measures the thickness of non-conductive coating on non-magnetic metal substrate.
Substrate: copper, aluminum, zinc, tin, etc.
Coating: rubber, paint, plastic, anodized film, etc.
- Real-time temperature compensation guarantees high accuracy, thin plating and oxide layer less than .79mils can be measured accurately
- Reduces the effects of electromagnetic interference and hand-held operation
- Probe can be re-matched after abrasion
- Tolerance measurement with adjustable alarm threshold
- USB interface for data transmission
- Coupling status indication
- Support cable printer



eddy current probe
NM (optional)



magnetic induction probe
FM (included)

SPECIFICATION

| Probe | | FM (included) magnetic induction probe | NM (optional) eddy current probe |
|--|-------------------------|---|---|
| Range | | 0~59.05mils | 0~59.05mils (chrome plating on copper: 0~1.57mils) |
| Resolution | | .0001mils (<10mils) .001mils (10mils~59.05mils) | |
| Accuracy * | zero calibration | ±(.04mils+2%L) | |
| | one-point calibration | ±(.04mils+2%L) | |
| | two-point calibration | ±[.04mils+(1~2)%L] | |
| | multi-point calibration | ±(.04mils+1%L) | |
| Measuring mode | | single point measurement, scan mode, differential mode, average mode | |
| Calibration mode | | zero calibration, one-point calibration, two-point calibration, multi-point calibration | |
| Test frequency | | 3 times per second | |
| Minimum substrate thickness | | .02" | .01" |
| Minimum measuring area | | .27" DIA | .20" DIA |
| Minimum curvature radius of convex workpiece | | .06" | .12" |
| Data storage | | 500 groups | |
| Interface | | USB | |
| Operation temperature | | 14°F~122°F | |
| Power supply | | 3×1.5V AAA batteries | |
| Dimension | | 5.90×2.75×1.18" | |
| Weight | | .35lb | |

STANDARD DELIVERY

| | |
|---|-------|
| Main unit | 1 pc |
| Magnetic induction probe (FM) | 1 pc |
| Zero calibration block for FM probe | 1 pc |
| Calibration foils (.47mils, 1.97mils, 3.94mils, 9.84mils, 19.68mils, 39.37mils) | 6 pcs |
| AAA battery | 3 pcs |
| Software and USB cable | 1 pc |

* L is measuring thickness in mils

OPTIONAL ACCESSORY

| | |
|---|-------------------|
| Eddy current probe (NM) (with zero calibration block for NM probe) | 5401-TC11-NM |
| Cable printer | 5401-TC11-PRINTER |