

## BUILT-IN WIRELESS COATING THICKNESS GAUGES

FOR MAGNETIC AND  
NON-MAGNETIC SUBSTRATESBUILT-IN  
WIRELESSDATA  
OUTPUTeddy current probe **NFE**  
with zero calibration block  
(9501-1200NWL included)magnetic induction  
probe **FE90** for bores  
and grooves (**optional**)calibration foils  
(included)magnetic induction  
probe **FE10** for large  
range (**optional**)zero calibration block  
(included)receiver (**optional**)magnetic induction  
probe **FE** (included)**9501-1200WL**

FE90 probe dimension



- Magnetic induction probe (FE) measures the thickness of non-magnetic coating and non-metallic coating on magnetic metal substrate.  
Substrate: iron, steel, magnetic stainless steel (not for non-magnetic stainless steel)  
Coating: zinc, copper, chrome, tin, plastic, powder, paint (not for nickel)
- Eddy current probe (NFE) measures the thickness of non-conductive coating on non-magnetic metal substrate.  
Substrate: copper, aluminum, zinc, non-magnetic stainless steel  
Coating: plastic, powder, paint, anodizing (not for chrome and zinc plating)
- Tolerance measurement
- Data statistic, including average, variance, maximum and minimum values
- Data can be sent to Excel by connecting to computers via wireless transmission
- Automatic power off

## SPECIFICATION

| Part No.         | 9501-1200WL  | 9501-1200NWL       |
|------------------|--|--------------------|
| Probe            | magnetic induction probe   | eddy current probe |
| Measuring range  | refer to the specification of probes   |                    |
| Accuracy         | $\pm(3\%L+.04)$ mils (range $\leq$ 50 mils)<br>$\pm(3\%L+.4)$ mils (range $>$ 50 mils)<br>L is measuring thickness in mils |                    |
| Resolution       | .01 mils (range $\leq$ 10 mils)<br>.1 mils (range $>$ 10 mils)   |                    |
| Measuring mode   | continuous and single  |                    |
| Storage capacity | 600  |                    |
| Output           | Type-C   |                    |
| Power supply     | 2x1.5V AA batteries  |                    |
| Dimension        | 5.31x3.03x1.26"  |                    |
| Weight           | .38lb  |                    |

## STANDARD DELIVERY

| Part No.                                   | 9501-1200WL | 9501-1200NWL |
|--|-------------|--------------|
| Magnetic induction probe<br>(9501-1200-FE) | 1 pc        | —            |
| Zero calibration block<br>for FE probe     | 1 pc        | —            |
| Eddy current probe<br>(9501-1200-NFE)      | —           | 1 pc         |
| Zero calibration block<br>for NFE probe    | —           | 1 pc         |
| Main unit                                  | 1 pc        |              |
| Software and USB cable                     | 1 pc        |              |
| Calibration foils<br>(2/4/10/20/40 mils)   | 5 pcs       |              |
| 1.5V AA battery                            | 2 pcs       |              |

## OPTIONAL ACCESSORY

| Part No. | 9501-1200WL                                   | 9501-1200NWL                                 |
|----------|---|--|
| Probe    | 9501-1200-NFE, 9501-1200-FE90, 9501-1200-FE10 | 9501-1200-FE, 9501-1200-FE90, 9501-1200-FE10 |
| Receiver | 7315-2/3/6/7/8/9                              |  |

## SPECIFICATION OF PROBES

| Part No.       | Range             | Minimum substrate thickness | Minimum measuring area | Minimum curvature radius of convex workpiece | Probe type   |
|----------------|-------------------|-----------------------------|------------------------|--|--|
| 9501-1200-FE   | 0~50 mils         | .02"                        | .28" DIA               | .06"   | magnetic induction probe ( <b>FE</b> )                         |
| 9501-1200-NFE  | 0~50 mils         | .01"                        | .59" DIA               | .12"   | eddy current probe ( <b>NFE</b> )                              |
| 9501-1200-FE90 | 0~50 mils         | .02"                        | .28" DIA               | —  | magnetic induction probe ( <b>FE90</b> ) for bores and grooves |
| 9501-1200-FE10 | 20 mils~4000 mils | .08"                        | 1.57" DIA              | .40"   | magnetic induction probe ( <b>FE10</b> ) for large range       |