

WH8 Series

The device use both Magnetic Method to measure the non-magnetic coating on a magnetic metal substrate and Eddy Current Method to measure the non-conductive coating on a non-magnetic metal substrate.

Magnetic Method (F-type probe)

When the probe contacts the cover layer, the probe and magnetic substrate forms a closed magnetic circuit; Due to the presence of non-magnetic coating, magnetic resistance changes. The thickness of the cover layer can be derived by measuring the change.

Eddy Current Method (NF-type probe)

When the probe contacts the cover layer, the probe and non-magnetic substrate forms Eddy Current and gives feedback to the coil inside the probe.



1. Thickness measurement using both Magnetic Method to measure the non-magnetic coating on a magnetic metal substrate and Eddy Current Method to measure the non-conductive coating on a non-magnetic me
2. Automatic identify ferrous and non-ferrous substrate quickly.
3. Negative display function to ensure the accuracy of zero point calibration.
4. Power voltage indicator.



Coating Thickness Meter

Specification

Model	WH81	WH82	WH83
Principle	Magnetic Method (F-type probe)	Magnetic Method (F-type probe) & Eddy Current Method (NF-type probe)	Magnetic Method (F-type probe) & Eddy Current Method (NF-type probe) + Statistic Function
Range	0-1250um	0-1250um	0-1500um
Accuracy error	zero calibration $\pm (1 + 3\% H)$; two-point calibration $\pm [(1\% \sim 3\% H)] H + 1.5$	zero calibration $\pm (1 + 3\% H)$; two-point calibration $\pm [(1\% \sim 3\% H)] H + 1.5$	zero calibration $\pm (1 + 3\% H)$; two-point calibration $\pm [(1\% \sim 3\% H)] H + 1.5$
Power	2 * AA battery	2 * AA battery	2 * AA battery
Unit	Um/mil	Um/mil	Um/mil
Temperature	0-40 °C	0-40 °C	0-40 °C
humidity	$\leq 85\%$	$\leq 85\%$	$\leq 85\%$
Minimum substrate	10 * 10mm	10 * 10mm	10 * 10mm
Minimum curvature	5mm convex; 5mm concave	5mm convex; 5mm concave	5mm convex; 5mm concave
Thinnest substrate	0.4mm	0.4mm	0.4mm
Weight	99g	99g	99g
Size	110mm * 65mm * 30mm	110mm * 65mm * 30mm	110mm * 65mm * 30mm

