

**Coating Thickness
Gauge
LAYERCHECK
750 USB**

Model 750 USB-F
for all non-magnetic
coatings on steel

Model 750 USB-FN
for all non-magnetic
coatings on steel and all
insulating coatings
on non-ferrous metals



testing equipment for quality management

ERICHSEN
since 1910

Technical Description

The measuring principle
conforms to the
DIN, ISO, BS and ASTM
norms and standards

Universal probe (FN) with
automatic measuring
technique for
measurements on steel
and on non-ferrous metals

Purpose and Application

The small and robust thickness gauge **LAYERCHECK 750 USB** is used for quick and precise, **non-destructive** coating thickness measurements on metallic substrates. Typical fields of application are e.g. industrial corrosion protection, assessor matters, electroplating and paint shops, the chemical, automobile, shipbuilding and aircraft industries as well as the apparatus and machine construction.

Design and Function

The housing body of **LAYERCHECK 750 USB** is made of a hard, wear-resistant material. An additional optimal ram- and impact-protection is provided by a surrounding rubber edge. For measurements in badly lit surroundings the **LAYERCHECK 750 USB** is equipped with a large, easy-to-read LC display with backlight.

Depending on the type of instrument, the battery-operated coating thickness gauges are working either on the magnetic induction principle (F) **or**, in addition, according to the eddy-current method (with combined universal probe - FN).

The **LAYERCHECK 750 USB-F** with its magnetic induction principle is suitable to be used for measurements of non-magnetic coatings such as lacquers, aluminium, chromium, copper, zinc, enamel, etc., on iron or steel as well as on alloyed and hardened magnetic steel.

The **LAYERCHECK 750 USB-FN** provides the magnetic induction principle as well as the eddy-current method. The combined probe enables the measurement of appropriate coatings on the base material steel as well as on non-ferrous metals. The automatic mode for the universal probe ensures the correct measuring method regardless of whether the base material is a ferrous or non-ferrous metal. The instrument recognizes automatically and indicates the type of substrate.

The probe should be held by the spring-mounted sleeve. This ensures a safe and stable positioning and a constant contact pressure. The hemispherical tip is made of hard and wear-resistant material. The single-pole sensor is connected with the gauge via cable (1 m long).

For export of the measuring values during the measuring process, or also for later display and export of the statistics the **LAYERCHECK 750 USB** can be connected to a PC via USB interface. For data transmission the Software Msoft7000 basic edition (German/English/French) on CD is included. Additionally, it can also be downloaded free of charge at www.erichsen.de/service/downloads.

Technical Data

Dimensions (L x W x D)	122 x 70 x 32 mm
Probe	Ø 15 mm x 62 mm
Measuring range	
Model 750 USB-F	0 - 3000 µm
Model 750 USB-FN	0 - 2000 µm (F) 0 - 2000 µm (N)
Tolerance	± (2% + 2 µm) of the measured value
Minimum curvature radius	convex: 5 mm/0.2" concave: 25 mm/1"
Minimum measuring area	Ø 20 mm/0.8"
Minimum base thickness	0.5 mm (F) 50 µm (N)
Display	4-digit screen data (11 mm/0.44")
Measuring units	µm – mils to choice
Calibration	standard, one point, two-point
Statistics	of max. 9999 measuring values
Storage from	average value, standard deviation, number of measured values, highest/lowest measuring value
Interface	USB
Power supply	3 Micro AAA batteries (>10000 readings)
Ambient temperature	gauge: 0 - 50 °C (32° - 122°F) sensor: -10 °C - 70 °C (14° - 158 °F)

Order Information	
Ord.-No.	Product Description
0304.01.31	Coating Thickness Gauge LAYERCHECK 750 USB-F incl. probe for measurements on steel
0305.01.31	Coating Thickness Gauge LAYERCHECK 750 USB-FN incl. universal probe for measurements on steel <u>and</u> non-ferrous metals

For more information and accessories (for example several types of calibration foils) please refer to our price list.

The right of technical modifications is reserved.
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