

Combined coating thickness measurement

on ferrous **and** non-ferrous substrates

Automatic recognition of
the measurement method
magnetic or eddy current

Easy to use menu – for fast
and simple adjustment.

With integrated probe.
One hand operation for
all applications

Automatic calculation and
display of statistics



ComBi[®]

D3-D3
3plus

The **ComBi-D3®** is a non-destructive coating thickness gauge, which is used to measure the coating thickness on ferrous and non-ferrous substrates. It is fitted with an automatic recognition of the measurement method magnetic or eddy current, also automatic calculation and display of statistics. The gauge allows the user to make all the necessary adjustments with the aid of a menu – changes can therefore be implemented quickly and simply with a minimum amount of fuss. These features as well as others, make the practical hand-held pocket-sized gauge an indispensable aid in the quest for quality control and other applications, where ease of use and high-speed measurements with impeccable accuracy are desired. The type **ComBi-D3®plus** is in addition comfortable equipped with RS 232 interface, software to transfer data to PC, cable to PC, memory and statistics. Included an infrared transmitter to transfer the data directly to our Mini-Infrared-Thermoprinter „SP100“, to print out measuring results in the right place.



Non-destructive coating thickness measurement

ComBi-D3 / ComBi-D3plus

The **ComBi-D3®** and the **ComBi-D3®plus** measures all non-magnetic coatings such as synthetics, lacquers, enamels, copper, chromium, zinc, etc. on **steel or iron** and all isolating coatings such as lacquers, synthetics, enamels, paper, glass, rubber, etc. on **copper, aluminium or brass**. This includes **eloxal coatings on aluminium** as well.

Features and equipment the ComBi-D3®

- Automatic recognition of the measurement method magnetic or eddy current
- Automatic calculation and display of statistics
- Easy to use – just place and read the result
- Large measuring range – 0 to 3,5 mm
- High accuracy
- Measurement type – single-point or continuous
- Vibrations do not influence the measurements
- Wear resistant, spring-loaded ruby probe
- Measurement result can be displayed in μm or in mils
- Gauges can be switched on/off manually or automatically
- Visual alarm if the coating thickness exceeds the maximum range
- Integrated probe – for single-handed use
- Easy set-up – just follow the menu
- Requires no timely re-calibration for different materials
- The V-groove assists in the placement of the probe on spherical surfaces (eg. rods, pipes, etc.)
- Delivered with carrying case, which includes the zero plates, a 9-volt battery (alkaline) and the instruction manual

Additional equipment ComBi-D3®plus

- Infrared transmitter
- Interface RS 232
- Memory for 8192 data units to be stored, subdivisible into max. 999 blocks of data

Optionally:

- Mini-Infrared-Thermoprinter SP 100 in a rubber protected housing to print out measuring results in the right place
- Software with statistic-function and transfer-cable to PC

Technical Specifications

Substrate:	Steel or Iron and non-magnetic metals such as zinc, copper, brass, aluminium, stainless steel
Continuous measuring range:	0 – 3500 μm or 0 – 140 mils
Digital display resolution:	from 0.0 – 999 μm , from 1.00 – 3,50 mm or from 0.00 – 140 mils
Resolution:	0.1 μm in the range 0.0 – 99.9 μm 1 μm in the range 100 – 999 μm 0.01 mm in the range 1.00 – 3.50 mm or 0.01 mils in the range 0.00 – 9.99 mils 0.1 mils in the range 10.0 – 99.9 mils 1.0 mils in the range 100 – 140 mils
Repeatability:	$\pm (1 \mu\text{m} + 2\%)$ of 0 – 1000 μm $\pm 3,5 \%$ of 1001 – 3500 μm
Tolerance:	$\pm 1 \mu\text{m}$ or ± 0.06 mils
Minimum object size:	10 x 10 mm or 0,4" x 0,4"
Minimum curvature convex: concave:	5 mm or 0.02 " 30 mm or 1 "
Minimum substrate thickness:	Fe: 0.20 mm or 8 mils NFe: 0.05 mm or 2 mils
Temperature range:	Storage: -10 °C – +60 °C (14 °F – 140 °F) Operation: 0 °C – +60 °C (32 °F – 140 °F)
Display:	4-digit liquid crystal display (LCD)
Probes:	Single point
Power supply:	9 Volt E block alkaline
Dimensions:	(L x B x H) 118 x 58 x 38 mm
Weight:	Approx. 150 g with the battery

Technical data subject to change without notification.



GmbH
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EN ISO 9001