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# Combined coating thickness measurement on ferrous and non-ferrous substrates

With integrated probe for ease of handling

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Menu driven set-up for fast and simple adjustments

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D3

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# SaluTron®

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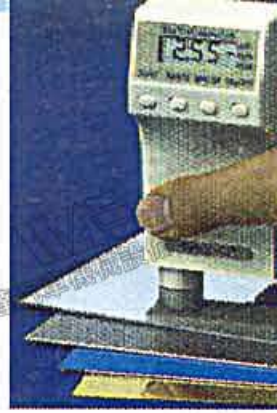
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The ComBi-D3® is a non-destructive coating thickness gauge, which is used to measure the coating thickness on ferrous and non-ferrous substrates. The gauge allows the user to make all the necessary adjustments with the aid of a menu – changes can therefore 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.



# Non-destructive coating thickness measurement on ferrous and non-ferrous substrates

## ComBi® D3

The ComBi-D3® 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.

- 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  $\mu\text{m}$  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

### Technical Specifications

|                              |                                                                                                    |                                                                                    |                          |
|------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------|
| Substrate:                   | Steel or Iron and non-magnetic metals such as zinc, copper, brass, aluminium, stainless steel      |                                                                                    |                          |
| Continuous measuring range:  | 0 – 3500 $\mu\text{m}$ or 0 – 140 mils                                                             |                                                                                    |                          |
| Digital display resolution:  | from 0.0 – 999 $\mu\text{m}$ , from 1.00 – 3,50 mm<br>or<br>from 0.00 – 140 mils                   |                                                                                    |                          |
| Resolution:                  | 0.1 $\mu\text{m}$                                                                                  | in the range                                                                       | 0.0 – 99.9 $\mu\text{m}$ |
|                              | 1 $\mu\text{m}$                                                                                    | in the range                                                                       | 100 – 999 $\mu\text{m}$  |
|                              | 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 $\mu\text{m}$<br>$\pm 3.5 \%$ of 1001 – 3500 $\mu\text{m}$ |                                                                                    |                          |
| Tolerance:                   | $\pm 1 \mu\text{m}$ or $\pm 0.06$ mils                                                             |                                                                                    |                          |
| Minimum object size:         | 10 x 10 mm or 0,4" x 0,4"                                                                          |                                                                                    |                          |
| Minimum curvature<br>convex: | 5 mm or 0.02 "                                                                                     |                                                                                    |                          |
| concave:                     | 30 mm or 1 "                                                                                       |                                                                                    |                          |
| Minimum substrate thickness: | Fe:                                                                                                | 0.20 mm or 8 mils                                                                  |                          |
|                              | NFe:                                                                                               | 0.05 mm or 2 mils                                                                  |                          |
| Temperature range:           | Storage:                                                                                           | $-10^\circ\text{C} - +60^\circ\text{C}$ ( $14^\circ\text{F} - 140^\circ\text{F}$ ) |                          |
|                              | Operation:                                                                                         | $0^\circ\text{C} - +60^\circ\text{C}$ ( $32^\circ\text{F} - 140^\circ\text{F}$ )   |                          |
| 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.

### Optionally:

- RS 232 connection
- Memory for 8192 data units to be stored, sub-divisible into max. 999 blocks of data
- Software with statistics-function and transfer cable to a PC
- Miniature printer for printout at site



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# SALUTRON - D3

## Combined coating thickness measurement on ferrous and non-ferrous substrates

**With integrated probe for ease of handling**  
**Menu driven set-up for fast and simple adjustments**

### Non - destructive coating thickness measurement

The gauge SahuTron®D3 belong to a range of non-destructive coating thickness gauges. They arte used to measure coating thickness on ferrous or nonferrous substrates. The gauges are easy to use and the user can 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. Both gauges have a large measuring range of 0 to 5 mm to offer and can therefore be used for a wide variety of applications. Modern electronic and the robust instrument housing guarantee an extended lifetime for the high precision instruments. These features as well as others, make the practical hand-held pocket gauges an indispensable aid in the quest for quality control and other applications.



- Easy to use-just place read the result
- Large measuring range -0 to 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  $\mu\text{m}$  or mils
- Gauges can be switched on/off manually or automatically
- Visual alarm if the gauge is placed on the incorrect substrate or 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 material
- The V-groove assists in the placement of the probe on spherical surfaces (rods, pipes, etc.)
- Delivered with carrying case, which includes a zero plate, a 9-volt battery (alkaline) and the user's manual