

# KERN TO 100-0.01EE

Material thickness gauge for ultrasonic material thickness testing in Echo-Echo principle



Display resolution 240×320

## Construction

|                                       |              |
|---------------------------------------|--------------|
| Dimension (W×D×H)                     | 31×69×130 mm |
| Dimension housing (W×D×H)             | 31×69×130 mm |
| Dimensions completely mounted (W×D×H) | 31×69×130 mm |
| Material housing                      | plastic      |
| Material display housing              | Plastics     |
| Cable length                          | 1 m          |

## Functions

|  |                                 |
|--|---------------------------------|
| Continuous capture possible                                    | ✓                               |
| Limit-setting function   | ✓                               |
| Memory function  | ✓                               |
| Statistic function   | ✓                               |
| Auto-off interval(s) in battery mode/rechargeable battery mode | off<br>5 min<br>2 min<br>10 min |

## Interface

|            |            |
|------------|------------|
| Interfaces | USB-Device |
|------------|------------|

## Power Supply

|                            |                    |
|----------------------------|--------------------|
| Supplied power supply      | Battery            |
| Battery / accumulator type | Alkali(-Manganese) |
| Battery                    | 2×1.5 V AA         |
| Battery connection         | Pad + Spring       |
| Battery operating time     | 30 h               |
| Battery capacity           | 3.000 mAh          |
| Battery voltage            | 3 V                |

## Environmental conditions

|                           |        |
|---------------------------|--------|
| Ambient temperature [Min] | -10 °C |
| Ambient temperature [Max] | 40 °C  |

## Approval

|         |   |
|---------|---|
| CE mark | ✓ |
|---------|---|

## Services (optional)

|  |         |
|--|---------|
| Article number for factory calibration | 961-113 |
|--|---------|

## Packing & Shipping

|                              |               |
|------------------------------|---------------|
| Delivery time                | 1 d           |
| Dimensions packaging (W×D×H) | 315×245×85 mm |

## Category

|                  |  |
|------------------|--|
| Brand            | Sauter   |
| Product category | Material thickness measuring device                  |
| Product group    | Ultrasonic Material thickness gauge Echo-Echo Method |
| Product family   | TO-EE  |

## Measuring System

|   |            |
|---|------------|
| Material thickness echo-echo [Min] (mm)           | 3 mm       |
| Material thickness echo-echo [Max] (mm)           | 100 mm     |
| Material thickness pulse-echo [Min] (mm)          | 0,7 mm     |
| Material thickness pulse-echo [Max] (mm)          | 600 mm     |
| Readability material thickness [d] (mm)           | 0,01 mm    |
| Speed of sound [Min] (m/s)                        | 200 m/s    |
| Speed of sound [Max] (m/s)                        | 19999 m/s  |
| Measuring head diameter                           | 10 mm      |
| Measuring head measuring frequency                | 5 MHz      |
| Units   | mm<br>inch |
| Internal data memory: Number of individual values | 100        |
| Internal data memory: Number of value groups      | 99         |
| Tolerance (% of [Max])                            | 0,4%       |

## Display

|              |            |
|--------------|------------|
| Display type | TFT, color |
|--------------|------------|

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|                      |                |
|----------------------|----------------|
| Net weight           | 0,245 kg       |
| Shipping method      | Parcel service |
| Net weight approx.   | 0,25 kg        |
| Gross weight approx. | 1,4 kg         |
| Shipping weight      | 1,33 kg        |

## Pictograms

### STANDARD



### OPTION

