

# KERN FL 500



Universal digital force gauge with graphic-assisted display and integrated load cell



|                                       |                    |
|---------------------------------------|--------------------|
| Dimension housing (W×D×H)             | 175×75×30 mm       |
| Dimensions completely mounted (W×D×H) | 175×75×30 mm       |
| Material display housing              | Aluminium          |
| Material housing                      | metal, lacquered   |
| Load support (tensile force)          | Hook               |
| Mounting - force application          | External thread M6 |

## Functions

|                        |   |
|------------------------|---|
| Hold function          | ✓   |
| Analogue signal        | ✓   |
| Peak function          | ✓   |
| Limit-setting function | ✓   |
| Memory function        | ✓   |
| Interfaces             | RS-232 standard<br>USB-Device<br>Analog (0 +/-2V) |

## Power Supply

|   |                               |
|---|-------------------------------|
| Input voltage power supply / power [Max]                                  | 100 V - 240 V                 |
| Input voltage device / power [Max]  | 9 V, 500 mA                   |
| Plug-in power supply type   | Power adapter                 |
| Supplied power supply   | Battery & Power supply        |
| Plug-in power supply / adapter for countries - included with the delivery | EURO<br>CH                    |
| Plug-in power supply / adapter for countries - optional                   | EURO<br>AUS<br>UK<br>US<br>CH |
| Rechargeable battery charging time  | 8 h                           |
| Rechargeable battery operating time - backlight on                        | 8 h                           |
| Rechargeable battery operating time - backlight off                       | 10 h                          |
| Battery / accumulator type  | NiMH                          |
| Battery capacity  | 750 mAh                       |
| Battery voltage   | 4,8 V                         |

## Environmental conditions

|                           |        |
|---------------------------|--------|
| Ambient temperature [Min] | 15 °C  |
| Ambient temperature [Max] | 35 °C  |
| Storage temperature [Min] | -10 °C |
| Storage temperature [Max] | 40 °C  |

## Category

|                  |                     |
|------------------|---------------------|
| Brand            | Sauter              |
| Product category | Force measurement   |
| Product group    | Digital force gauge |
| Product family   | FL-S                |

## Measuring System

|   |                        |
|---|------------------------|
| Default unit                                      | N                      |
| Tolerance (% of [Max])                            | 0,2%                   |
| Measuring range force [Max] (N)                   | 500 N                  |
| Readability force [d] (N)                         | 0,2 N                  |
| Directions of force                               | tension<br>compression |
| Measuring head measuring frequency                | 1000 Hz                |
| Number of platforms / channels                    | 1                      |
| Overload protection (% of [Max])                  | 120%                   |
| Internal data memory: Number of value groups      | 1                      |
| Internal data memory: Number of individual values | 500                    |

## Approval

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

## Display

|                      |        |
|----------------------|--------|
| Display type         | LCD    |
| Display digit height | 8,5 mm |
| Screen reversible    | ✓      |

## Construction

|                                  |              |
|----------------------------------|--------------|
| Dimension display device (W×D×H) | 175×75×30 mm |
|----------------------------------|--------------|

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## Packing & Shipping

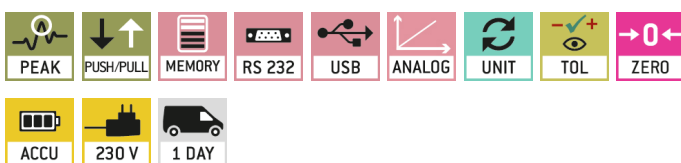
|                              |                |
|------------------------------|----------------|
| Readability force [d] (N)    | 1 d            |
| Dimensions packaging (W×D×H) | 260×227×75 mm  |
| Net weight                   | 0,572 kg       |
| Shipping method              | Parcel service |
| Net weight approx.           | 0,60 kg        |
| Gross weight approx.         | 1,2 kg         |
| Shipping weight              | 1,11 kg        |

## Services (optional)

|   |         |
|---|---------|
| Article number for DAkkS calibration (tensile force)                      | 963-161 |
| Article number for DAkkS calibration (compressive force)                  | 963-261 |
| Article number for DAkkS calibration (tensile force/ compressive force)   | 963-361 |
| Article number for factory calibration (tensile force)                    | 961-161 |
| Article number for factory calibration (compressive force)                | 961-261 |
| Article number for factory calibration (tensile force/ compressive force) | 961-361 |

## Pictograms

### STANDARD



### OPTION

