

# SAUTER FL 10K

**KERN**

Powerful digital force gauge with graphic assisted display for tensile and compressive force measurements with external load cell



## Category

|                  |                                                   |
|------------------|---------------------------------------------------|
| Brand            | Sauter                                            |
| Product category | Force measurement                                 |
| Product group    | Digital force gauges<br>(external measuring cell) |
| Product family   | FL-M                                              |

## Measuring System

|                                                   |                        |
|---------------------------------------------------|------------------------|
| Directions of force                               | tension<br>compression |
| Measuring range force [Max] (N)                   | 10 kN                  |
| Readability force [d] (N)                         | 5 N                    |
| Measuring head measuring frequency                | 1000 Hz                |
| Internal data memory: Number of value groups      | 1                      |
| Overload protection (% of [Max])                  | 120%                   |
| Tolerance (% of [Max])                            | 0,2%                   |
| Internal data memory: Number of individual values | 500                    |
| Number of platforms / channels                    | 1                      |
| Default unit                                      | N                      |

## Display

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

## Construction

|                                       |              |
|---------------------------------------|--------------|
| Dimension housing (W×D×H)             | 175×75×30 mm |
| Dimensions completely mounted (W×D×H) | 175×75×30 mm |
| Dimension display device (W×D×H)      | 175×75×30 mm |
| Dimensions load cell                  | 70×60×25 mm  |

|                              |                   |
|------------------------------|-------------------|
| Material housing             | metal, lacquered  |
| Material display housing     | aluminium         |
| Mounting - force dissipation | Threaded hole M12 |
| Mounting - force application | Threaded hole M12 |
| Load support (tensile force) | Rod end           |

## Functions

|                        |   |
|------------------------|---|
| Limit-setting function | ✓ |
| Analogue signal        | ✓ |
| Memory function        | ✓ |

## Interface

|            |                                                     |
|------------|-----------------------------------------------------|
| Interfaces | RS-232 standard<br>USB-Device<br>analogue (0 +/-2V) |
|------------|-----------------------------------------------------|

## Power Supply

|                                                                           |                                                               |
|---------------------------------------------------------------------------|---------------------------------------------------------------|
| Supplied power supply                                                     | Accu & Power supply                                           |
| Power supply type                                                         | Power adapter                                                 |
| 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                                 |
| Input voltage power supply / power [Max]                                  | 100 V - 240 V                                                 |
| Input voltage device / power [Max]                                        | 9 V, 500 mA                                                   |
| Power socket for mains adapter                                            | Hollow plug inside plus,<br>Ø outside 5,5 mm; Ø inside 2,1 mm |
| Battery / accumulator type                                                | NiMH                                                          |
| Battery capacity                                                          | 750 mAh                                                       |
| Battery voltage                                                           | 4,8 V                                                         |
| Battery - Individual weight                                               | 50 g                                                          |
| Rechargeable battery                                                      | 4,8 V 750 mA                                                  |
| Rechargeable battery operating time - backlight on                        | 8 h                                                           |
| Rechargeable battery operating time - backlight off                       | 10 h                                                          |
| Rechargeable battery charging time                                        | 8 h                                                           |
| Battery/Accu connected                                                    | fixed electrical connection, not insulated                    |

## Environmental conditions

|                           |       |
|---------------------------|-------|
| Ambient temperature [Min] | 15 °C |
|---------------------------|-------|

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

## Approval

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

## Services (optional)

|                                                                           |         |
|---------------------------------------------------------------------------|---------|
| Article number for factory calibration (tensile force)                    | 961-164 |
| Article number for factory calibration (compressive force)                | 961-264 |
| Article number for factory calibration (tensile force/ compressive force) | 961-364 |

## Packing & Shipping

|                              |                |
|------------------------------|----------------|
| Delivery time                | 1 d            |
| Dimensions packaging (W×D×H) | 370×325×108 mm |
| Shipping method              | Parcel service |
| Net weight approx.           | 1,6 kg         |
| Gross weight approx.         | 2,6 kg         |
| Shipping weight              | 2,6 kg         |
| Shipping volume weight       | 2,6 kg         |

## Product information

|                      |                          |
|----------------------|--------------------------|
| GTIN/EAN number      | 4045761215993            |
| Trade number         | 90248000                 |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD



### OPTION

