# SAUTER **FE 50**

Digital force gauge with pass-fail function for tensile and compressive force measurements

**Date of creation: 04.10.2026**

| Category | |
|---|---|
| Brand | Sauter |
| Product category | Force measurement |
| Product group | Digital force gauge |
| Product family | FE |

| Measuring System | |
|---|---|
| Directions of force | tension<br>compression |
| Measuring range force [Max] (N) | 50 N |
| Readability force [d] (N) | 0,02 N |
| Measuring head measuring frequency | 1000 Hz |
| Overload protection (% of [Max]) | 150% |
| Tolerance (% of [Max]) | 0,3% |
| Default unit | N |

| Display | |
|---|---|
| Display type | LCD |
| Screen reversible | ✓ |

| Construction | |
|---|---|
| Dimension housing (W×D×H) | 71×31×180 mm |
| Dimensions completely mounted (W×D×H) | 71×31×180 mm |
| Material housing | ABS plastic |
| Mounting - force application | External thread M6 |
| Load support (tensile force) | Hook |

| Functions | |
|---|---|
| Hold function | ✓ |
| Peak function | ✓ |
| Limit-setting function | ✓ |

| Power Supply | |
|---|---|
| Supplied power supply | Accu & Power supply |
| Power supply type | USB including power supply |
| Plug-in power supply / adapter for countries - optional | UK |
| Input voltage power supply / power [Max] | 100 V - 240 V |
| Power supply cable removable | removable |
| Input voltage device / power [Max] | 5 V, 1 A |
| Power socket for mains adapter | USB-C |
| Battery / accumulator type | NiMH |
| Battery capacity | 750 mAh |
| Battery voltage | 4,8 V |
| 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 |
| Ambient temperature [Max] | 35 °C |
| Storage temperature [Min] | -10 °C |
| Storage temperature [Max] | 40 °C |

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

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| | |
|---|---|
| Article number for factory calibration (tensile force/ compressive force) | 961-361O |

## Packing & Shipping

| | |
|---|---|
| Delivery time | 1 d |
| Dimensions packaging (W×D×H) | 263×230×75 mm |
| Shipping method | Parcel service |
| Net weight approx. | 0,35 kg |
| Gross weight approx. | 0,95 kg |
| Shipping weight | 0,914 kg |
| Shipping volume weight | 0,9 kg |

## Product information

| | |
|---|---|
| GTIN/EAN number | 4045761494145 |
| Trade number | 90248000 |
| Warranty Time | 24 mon |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD

### OPTION