

# KERN FH 200



Universal digital force gauge for tensile and compressive force measurements with integrated load cell



## Category

|                  |                                                  |
|------------------|--------------------------------------------------|
| Brand            | Sauter                                           |
| Product category | Force measurement                                |
| Product group    | Digital force gauge<br>(internal measuring cell) |
| Product family   | FH-S                                             |

## Measuring System

|                                                   |                        |
|---------------------------------------------------|------------------------|
| Measuring range force [Max] (N)                   | 200 N                  |
| Readability force [d] (N)                         | 0,1 N                  |
| Measuring head measuring frequency                | 2 kHz                  |
| Overload protection (% of [Max])                  | 150%                   |
| Default unit                                      | N                      |
| Internal data memory: Number of individual values | 10                     |
| Internal data memory: Number of value groups      | 1                      |
| Tolerance (% of [Max])                            | 0,5%                   |
| Directions of force                               | tension<br>compression |

## Display

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

## Construction

|                                       |              |
|---------------------------------------|--------------|
| Dimension housing (W×D×H)             | 230×70×40 mm |
| Dimensions completely mounted (W×D×H) | 280×70×40 mm |
| Dimension display device (W×D×H)      | 240×70×40 mm |
| Material housing                      | plastic      |

|                              |                    |
|------------------------------|--------------------|
| Material display housing     | Plastics           |
| Mounting - force application | External thread M6 |
| Load support (tensile force) | Hook               |

## Functions

|                                                                |            |
|----------------------------------------------------------------|------------|
| Limit-setting function                                         | ✓          |
| Peak function                                                  | ✓          |
| Memory function                                                | ✓          |
| Statistic function                                             | ✓          |
| Auto-off interval(s) in battery mode/rechargeable battery mode | 1 - 60 min |

## Interface

|            |                               |
|------------|-------------------------------|
| Interfaces | RS-232 standard<br>USB-Device |
|------------|-------------------------------|

## Power Supply

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Supplied power supply                                   | Accu & Power supply           |
| Plug-in power supply type                               | Power adapter                 |
| 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]                      | 5 V 1000 mA                   |
| Battery / accumulator type                              | NiMH                          |
| Battery connection                                      | 2-pole tub connector          |
| Rechargeable battery operating time - backlight on      | 24 h                          |
| Rechargeable battery operating time - backlight off     | 40 h                          |
| Rechargeable battery charging time                      | 120 min                       |

## Environmental conditions

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

## Approval

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

## Services (optional)

|                                                      |         |
|------------------------------------------------------|---------|
| Article number for DAkKS calibration (tensile force) | 963-161 |
|------------------------------------------------------|---------|

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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

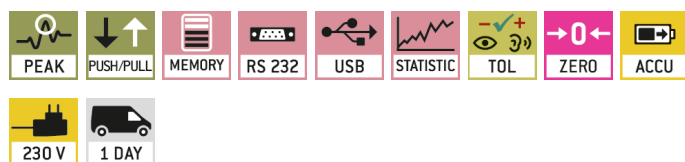
Article number for factory  
calibration (tensile force/  
compressive force) 961-361

## Packing & Shipping

|                      |                |
|----------------------|----------------|
| Delivery time        | 1 d            |
| Shipping method      | Parcel service |
| Net weight approx.   | 0,55 kg        |
| Gross weight approx. | 1,4 kg         |
| Shipping weight      | 1,352 kg       |

## Pictograms

### STANDARD



### OPTION

