

PRODUCT BROCHURE

MEASURING INSTRUMENTS FH 20K

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ENGLISH



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

CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

Phone : +49 7433 9933-0
Fax : +49 7433 9933-149
Email : info@kern-sohn.com
Web : www.kern-sohn.com



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PRODUCT SHOWCASE



DESCRIPTION

- Turnable display with backlight
- NEW: USB interface for data transfer and power supply as standard
- Data interface RS-232 as standard
- Selectable measuring units: N, kN, kgf, tf
- Peak-Hold function to capture the peak value or Track function for continuous display of measurement
- Measuring with tolerance range (limit-setting function): Upper and lower limit adjustable, in pull and push direction. The process is supported by an audible and visual signal
- Auto-Power-Off
- Internal memory for up to 10 measurement values
- Mini Statistics Kit: calculates the average result from up to 10 stored measured values, as well as min., max., n
- Tension loops and compression plates are included in delivery
- Delivered in a robust carrying case

SPECIFICATIONS

Article codes, product groups & Status information

Model article-code	FH 20K
Model-Serie	FH-M-EXT
Assortment	Sauter
Product Type	Force measurement
Product group	Digital force-measuring devices (external sensor)
Product usage type	Main article
EAN code (Model)	404576 1368552
Predecessor Model	FH 20K-2019a; FH 20K-2023a
Customs tariff number	90248000

Technical data - Primary

Max. Force	20 kN
Readability	10 N

Technical data - Construction

Dimension housing (W×D×H)	240×70×40 mm
Material housing	plastic
Mounting thread	threaded hole M12

Technical data - Display

Display type	LCD
DisplayReverse	yes

Technical data - Power supply

Power supply	Battery & Power supply
Battery type	NiMH
Operating time (Display off)	40 h
Operating time (Display on)	24 h

Technical data - Measuring system

Units	kN
Tolerance (% from Max.)	0.5%
Force direction	compression;tension

Technical data - Functions

Statistic-Function	yes
Peak-Function	yes
Limit value (Min - Max)	yes
Audible ready signal	yes
Interface	RS-232 standard;USB-Device

Technical data - Environmental conditions

Maximum operating temperature	40 °C
Minimum storage temperature	40 °C

Technical data - Packing & Shipping

Dimensions packaging (W×D×H)	360×240×170 mm
Gross weight	3 kg
Net weight	1.6 kg

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Shipping method	Parcel service
UN number	Ni-MH (UN 3496, Packing Instruction #0, Not Restricted as per Special Provision A199)
Packaging component - by weight - cardboard	210 g
Packaging component - by weight - plastics	14 g
Packaging component - by weight - styrofoam	743 g
Delivery time	1 d

Technical data - Counting data

Memory	yes
Value memory - number of groups	1
Value memory - number of cells (per group)	10

FUNCTIONS

Standard

Option

ACCESSORIES

Model	Description
YKA-01	Power supply KERN YKA-01
YKA-02	Power supply adapter set KERN YKA-02

Model	Description
<u>AFM 14</u>	Adapter KERN AFM 14
<u>AFM 16</u>	Adapter KERN AFM 16
<u>AFM 17</u>	Thread SAUTER AFM 17
<u>AFM 18</u>	Thread SAUTER AFM 18
<u>AFM 21</u>	Thread SAUTER AFM 21
<u>FS-E07</u>	Power supply KERN FS-E07
<u>FH-A04</u>	Interface cable FH-A04

SERVICES

Model	Description
<u>YKA-01</u>	Power supply KERN YKA-01
<u>YKA-02</u>	Power supply adapter set KERN YKA-02
<u>AFM 14</u>	Adapter KERN AFM 14
<u>AFM 16</u>	Adapter KERN AFM 16
<u>AFM 17</u>	Thread SAUTER AFM 17
<u>AFM 18</u>	Thread SAUTER AFM 18
<u>AFM 21</u>	Thread SAUTER AFM 21
<u>FS-E07</u>	Power supply KERN FS-E07
<u>FH-A04</u>	Interface cable FH-A04

SPARE PARTS

Model	Description
<u>YKA-01</u>	Power supply KERN YKA-01
<u>YKA-02</u>	Power supply adapter set KERN YKA-02
<u>AFM 14</u>	Adapter KERN AFM 14
<u>AFM 16</u>	Adapter KERN AFM 16
<u>AFM 17</u>	Thread SAUTER AFM 17
<u>AFM 18</u>	Thread SAUTER AFM 18
<u>AFM 21</u>	Thread SAUTER AFM 21
<u>FS-E07</u>	Power supply KERN FS-E07
<u>FH-A04</u>	Interface cable FH-A04

SOFTWARES

Model	Description
<u>YKA-01</u>	Power supply KERN YKA-01
<u>YKA-02</u>	Power supply adapter set KERN YKA-02
<u>AFM 14</u>	Adapter KERN AFM 14
<u>AFM 16</u>	Adapter KERN AFM 16
<u>AFM 17</u>	Thread SAUTER AFM 17
<u>AFM 18</u>	Thread SAUTER AFM 18
<u>AFM 21</u>	Thread SAUTER AFM 21
<u>FS-E07</u>	Power supply KERN FS-E07
<u>FH-A04</u>	Interface cable FH-A04

RELATED ARTICLES DATA

Model name	Max. Force	Readability
<u>FH 100K</u>	100 kN	50 N
<u>FH 100K</u>	100 kN	50 N
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<u>FH 100K</u>	100 kN	50 N
<u>FH 100K</u>	100 kN	50 N
<u>FH 10K</u>	10 kN	5 N
<u>FH 10K</u>	10 kN	5 N
<u>FH 10K</u>	10 kN	5 N
<u>FH 10K</u>	10 kN	5 N

Model name	Max. Force	Readability
<u>FH 50K</u>	50 kN	10 N
<u>FH 50K</u>	50 kN	10 N
<u>FH 5K</u>	5 kN	1 N
<u>FH 5K</u>	5 kN	1 N
<u>FH 5K</u>	5 kN	1 N
<u>FH 5K</u>	5 kN	1 N
<u>FH 5K</u>	5 kN	1 N
<u>FH 5K</u>	5 kN	1 N
<u>FH 5K</u>	5 kN	1 N
<u>FH 5K</u>	5 kN	1 N
<u>FH 5K</u>	5 kN	1 N
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<u>FH 5K</u>	5 kN	1 N
<u>FH 5K</u>	5 kN	1 N
<u>FH 5K</u>	5 kN	1 N

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