

# Chain hoist test set for friction clutches

## Up to 3,500 kg [7,720 lb]

### Model FRKPS

WIKA data sheet FO 51.69

EAC

#### Applications

- Checking the overload protection of chain hoists for service companies, chain hoist users, maintenance and corrective maintenance

#### Special features

- Measuring range 40 ... 3,500 kg [88 ... 7,720 lb]
- No more cumbersome handling with test weights
- One-sensor concept for the entire load range
- Maximum/Minimum value memory
- Relative linearity error 0.5 %  $F_{nom}$



Chain hoist test set, model FRKPS

#### Description

The FRKPS is used to check the overload protection of chain hoists. The set consists of the force transducer with chain adapters and the hand-held indicator. For the testing, the force transducer is hung on the chain, moves upwards with the chain against the bottom of the chain hoist and thereby blocks the chain.

The force transducer is designed as a shear beam load cell and is therefore insensitive to parasitic forces and torques. The output signal is fed to the hand-held indicator via cable. Two chain adapters and three chain centring sleeves accompany the instrument to allow testing all chain hoists occurring in the specified load range.

The battery-operated model FE630 hand-held indicator evaluates the signals supplied by the force transducer with a very high sampling rate of 7,200 Hz. The hand-held indicator makes it easier to read the values directly.

In the transport case:

- Instrument consisting of:
  - Force transducer with 10 m cable and M9 connector
  - 3 chain centring sleeves
  - 2 chain adapters
- Calibration certificate
- Supplied accessory (model FE630)
- Operating instructions

## Specifications

### Basic information / Version per standard

<b>Standard</b>	VDI/VDE/DKD 2638
<b>Material (in contact with the environment)</b>	Stainless steel
<b>Ingress protection</b>	IP67
<b>Weight</b>	
Instrument	Approx. 2.5 kg [5.51 lb]
Instrument + transport case + hand-held indicator	Approx. 10 kg [22 lb]

### Accuracy specifications / Repeatability

<b>Relative linearity error <math>d_{lin}</math></b>	$\leq 0.5 \% F_{nom}$
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### Measuring range / Scale range / Setting range / Operating range

<b>Rated load <math>F_{nom}</math></b>	40 ... 3,500 kg [88 ... 7,720 lb]
<b>Force limit <math>F_L</math></b>	120 % $F_{nom}$
<b>Breaking force <math>F_B</math></b>	> 150 % $F_{nom}$
<b>Digital indicator or digital display</b>	→ See data sheet FO 58.12 for model FE630

### Input signal / Output signal

<b>Rated characteristic value <math>C_{nom}</math></b>	2.0±0.2 mV/V
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### Electrical connection

<b>Connection type</b>	Connector M9, 5-pin
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### Operating conditions

<b>Rated temperature range</b>	0 ... +80 °C
<b>Operating temperature range</b>	-20 ... +80 °C
<b>Humidity</b>	35 ... 85 % relative humidity
<b>Condensation</b>	Non-condensing

## Approvals

Logo	Description	Region
	EU declaration of conformity RoHS directive	European Union

## Optional approvals

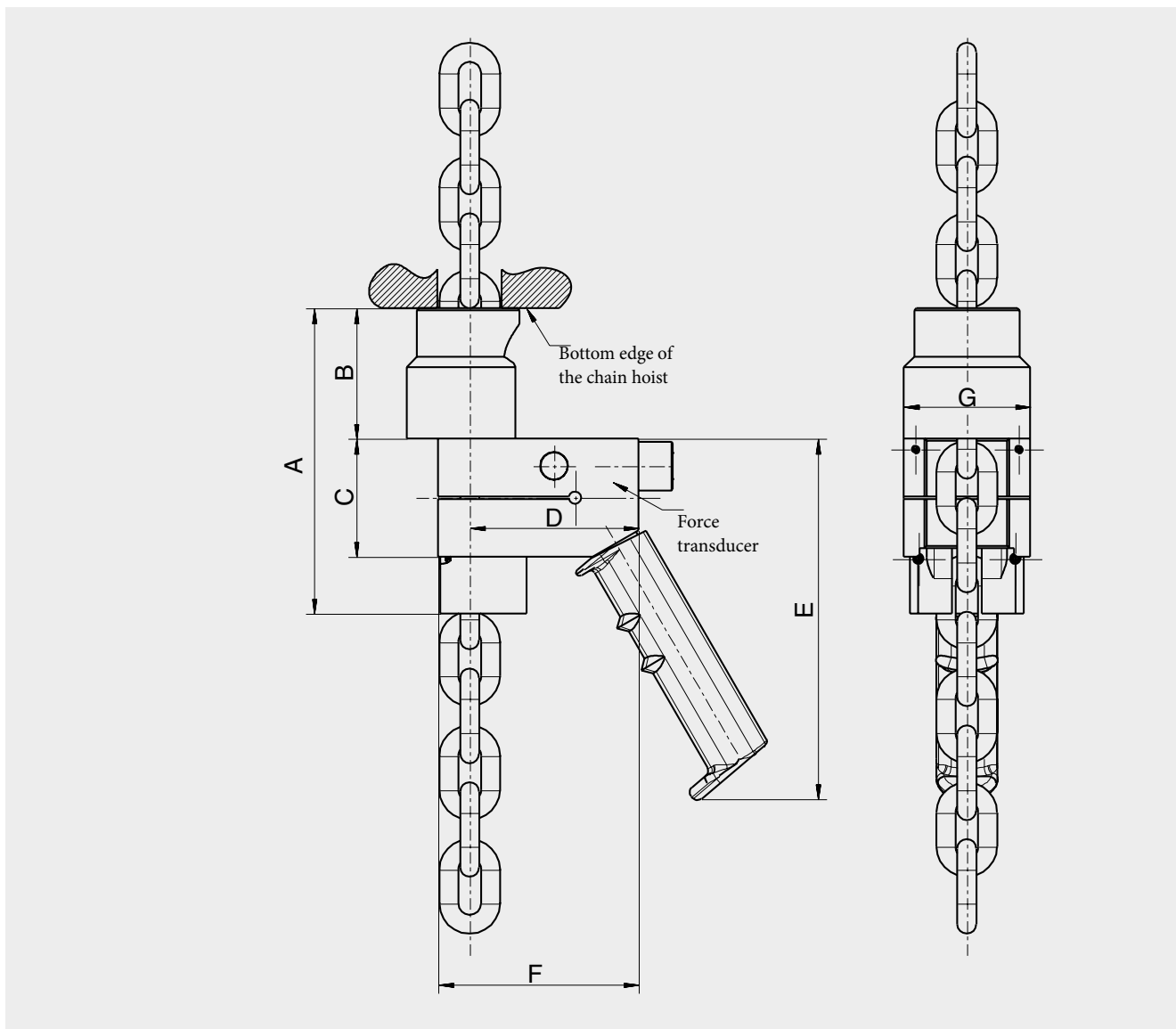
Logo	Description	Region
	EAC	Eurasian Economic Community

## Certificates

Description	
<b>Certificates</b>	<ul style="list-style-type: none"> <li>■ 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)</li> <li>■ 3.1 inspection certificate per EN 10204 (e.g. material proof for wetted metal parts, indication accuracy, calibration certificate)</li> </ul>
<b>Calibration <sup>1)</sup></b>	<ul style="list-style-type: none"> <li>■ Factory calibration certificate</li> <li>■ DAkkS calibration certificate (traceable and accredited in accordance with ISO/IEC 17025)</li> </ul>
<b>Recommended calibration interval</b>	1 year (dependent on conditions of use)

1) Calibration is carried out, as standard, at 6 temperatures evenly distributed over the temperature range. On request, special points are also possible.

Dimensions in mm [in]



Unit	A	B	C	D	E	F	G
mm	145	62	56	80	171	95	60
inch	5.71	2.44	2.2	3.15	6.73	3.74	2.36

## Accessories and spare parts

Model	Description	Order number
FE630	Hand-held indicator for displaying and reading the measured values	14785125
AZK08	Adapter set for profile steel chains incl. chain centring sleeves and chain adapters	14426883

### Ordering information

Item number 14796144

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