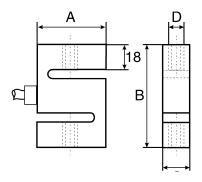


- Wire strain gauges in four-conductor full-bridge circuit.
- Control resistance for final adjustment of the measuring range.
- All measuring ranges that are specified in Newton can also be supplied in kg ranges
 - All ALMEMO® devices provide easy push-button adjustment of no-load and final value.

New: Measurement of fast changes in force and force peaks or high resolution measurement with digital ALMEMO® D7 measuring plugs, see page 10.15.



Technical Data:

Max. load limit:	150% of final value
Maximum dynamic load:	70% of final value
Reference temperature:	23°C
Cable:	3m long, with axial ALMEMO® connector
Accuracy for tension:	<±0.1% of fin. val.
Accuracy for tension and comp	pression: <±0.2% of fin. val.
Nominal measuring path:	<0.15mm
Operative range:	−10 to +70°C

Drift error at permanent load:	<0.07% per 30min
Permissible lateral forces:	$\pm 60\%$ of fin. val.
Protection system:	up to 1kN: IP 65, from 2kN: IP 67
Material:	up to 1kN: aluminium 2 to 50kN: stainless steel
Dimensions in mm	up to 10kN: A=50, B=75, C=20, D=M12 20kN, 50kN: A=65, B=85, C=40, D=M24 x2

Options for all Force Transducers	Order no.		Order no.
Indication of measured values with ALMEMO® devices in kg	OK9000K	Indication of measured values with ALMEMO® devices in N and kg	OK9000NK

Accessories	Order no.		Order no.
Knuckle eyes with external thread M 12 (2 pcs) (dimensions in mm: D = M 12, E = 16,		Knuckle eyes with external thread M 24 x 2 (2 pcs) (dimensions in mm: $D = M 24 x 2$, $E = 26$,	
F = 32, G = 12, L = 54	ZB902512	F = 62, G = 25, L = 94	ZB902524

Types (including test certificate) Measuring range 0.02kN 0.05kN, 0.1kN, 0.2kN, 0.5kN, 1kN, 2kN, 5kN or 10kN please specify Measuring range 20kN Measuring range 50kN Measuring range 50kN Order no. FKA0251 FKA0252

Factory calibration KK9xxx force (traction / thrust) for sensor or measuring chain (sensor + device) (see chapter Calibration certificates)

Other designs are available on request

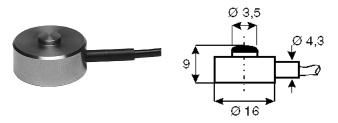
Tension and compression sensor FKA 012 with male thread terminal up to 1000 kN



Tension and compression sensor FKA 1563 low height, with male thread terminal up to 2 kN



Compression Sensor K 22



- Wire strain gauges in four-conductor full-bridge circuit.
- Control resistance for final adjustment of the measuring range.
- All measuring ranges that are specified in Newton can also be supplied in kg ranges.

All ALMEMO® devices provide easy push-button adjustment of no-load and final value.

New: Measurement of fast changes in force and force peaks or high resolution measurement with digital ALMEMO® D7 measuring plugs, see page 10.15.

Technical Data:

Max. load limit:	150% of final value
Maximum dynamic load:	70% of final value
Reference temperature:	23°C
Cable:	radial, 3m long
	with ALMEMO® connector
Accuracy:	<±0.5% of final value

Nominal measuring path:	<0.2mm
Operative range:	−10 to +50°C
Drift error at permanent load:	0.1% per 30min
Protection system:	IP 65
Material:	stainless steel

Type (including test certificate)

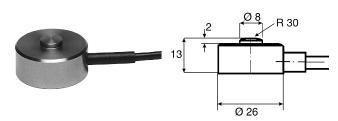
Measuring range 100 N, 200N, 500N, 1000N or 2000N please specify

Order no.

Order no. FKA022

Factory calibration KK9xxx force (tension or compression) for sensor or measuring chain (sensor + device) (see chapter Calibration certificates)

Compression Sensor K 1613



- Wire strain gauges in 4-conductor full-bridge circuit.
- Control resistance for final adjustment of the measuring range.
- All measuring ranges that are specified in Newton can also be supplied in kg rangesr.
 - All ALMEMO® devices provide easy push-button adjustment of no-load and final value.

New: Measurement of fast changes in force and force peaks or high resolution measurement with digital ALMEMO® D7 measuring plugs, see page 10.15.

Technical Data:

Max. load limit:	150% of final value	
Maximum dynamic load:	70% of final value	
Reference temperature:	23°C	
Cable:	radial, 3m long	
	with ALMEMO® connector	
Accuracy:	<±0.5% of final value	

Nominal measuring path:	<0.2mm
Operative range:	−10 to +50°C
Drift error at permanent load:	0.1% per 30min
Protection system:	IP 65
Material:	stainless steel

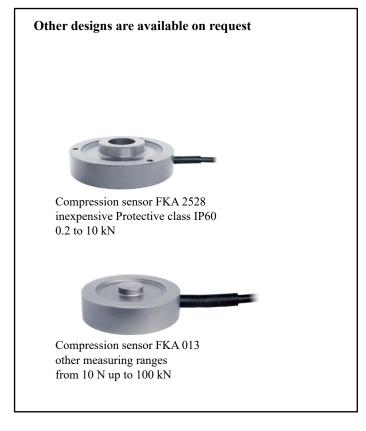
Type (including test certificate)

Order no.

Measuring range 0.5kN, 1kN, 2kN, 5kN, 10kN or 20kN (50 kN on request) please specify

FKA613

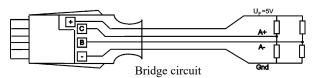
Factory calibration KK9xxx force (tension or compression) for sensor or measuring chain (sensor + device) (see chapter Calibration certificates)





ALMEMO® input connector for measuring bridges, millivolt / volt differential

Full bridges are measured in four-conductor circuits. The power supply for the bridges is provided by the ALMEMO® plug.



For technical data, see chapter "Input connectors".

Types			Order no.
Model	Meas. Range	Resolution	
55mV DC	-10.0 to $+55.0$	1 μV	ZA9105FS0
26mV DC	-26.0 to +26.0	1 μV	ZA9105FS1

Digital ALMEMO® D7 measuring plug for bridge differential mV



For force transducers (compression / tension), torque transducer or strain gauges. Fast measurement with 1000 measurement operations per second, resolution of 50 000 digits or high resolution of 200 000 digits, 10 measuring operations per second. Only for current ALMEMO® V7 measuring instruments, i.a. precision measuring instrument ALMEMO® 710 or ALMEMO® 202.

Full bridges are measured in four-conductor circuits. The power supply for the bridges is provided by the ALMEMO® D7 plug..

For technical data, see chapter "Input connectors".

Types:			Order no.
Range	Display range	Conversion rate	
DMS2*	±50 000 digits	1000 mops	ZKD700FS
or: DMS1	±200 000 digits	10 mops	
* Factory setting : The desired measuring range can be programmed on the ALMEMO® V7 device itself.			