

Force gauge ZW 6.0



Factory calibrated
Measurement ranges of 10 kN and 20 kN
Measure the top load in positive
and negative direction of force

Tensile and compression applications
Weighing operations in many different fields

Designed,
developed and
made in Germany

This fully electronic force gauge is suitable for measuring tensile and compression forces. It is available for two measurement ranges, up to 10 kN and up to 20 kN. The force gauge consists of a transducer and a hand-held terminal. These are firmly connected to each other with a cable. The display of the hand-held terminal can show the current measured values as well as the peak values of both load directions.

The transducer, a shear-force load cell, is insensitive to transverse forces. This ensures that the force gauge provides very accurate measurements. The transducer can be adapted in various ways with the two mounting threads. Furthermore, spherical rod ends and eyebolts are available as accessories.

You can request the firmware version,

the date of the last calibration and the serial number of your device via an easy-to-use menu. In this menu, you can also set the auto-off time for saving the batteries, the desired measuring rate and the display contrast.

Four batteries of type AA which can be easily replaced by the user supply the force gauges with power.

Technical Data

Type	ZW6.0 / 10000 N	ZW6.0 / 20kN
Nominal load	10,000 N	20 kN
Overload	1.2x nominal load	
Display	12digits, 2 lines	
Sensitivity/display increments*	1 N	0.01 kN
Accuracy	±0.25 % f.s. ** (under tension <i>or</i> compression)	
Operating temperature	0°C to +50°C	
Storage temperature	-20°C to +70°C	
Measuring rate	configurable: 10, 20 or 100 Hz	
Power supply	4 x battery type AA	
Operating time	> 8 h continuous operation	
Auto off time	configurable: 8, 30, 60 min / off	
Dimensions of the transducer [mm]	L 80 x W 25 x H 80	
Mounting thread	2 x M16	
Hand terminal's dimensions [mm]	L 145 x W 78 x H 44	
Material of the transducer	Steel	
Housing of the hand terminal	ABS	
Total weight (without accessoires) [kg]	1.2	
Cable	FDCP plus 4 x 0.14 mm ² , length 1.5m	
Protection class of the transducer	IP 67	
Protection class of the hand terminal	IP 40	

* other sensitivities on request

** f.s. = full scale value



Calibration

- » Factory calibrated
- » Under tension and/or compression
- » Display in N, kN
- » Optional: ISO or DAkkS calibration

Options

- » Mechanical overload protection for compression forces

Accessories for ZW 6.0

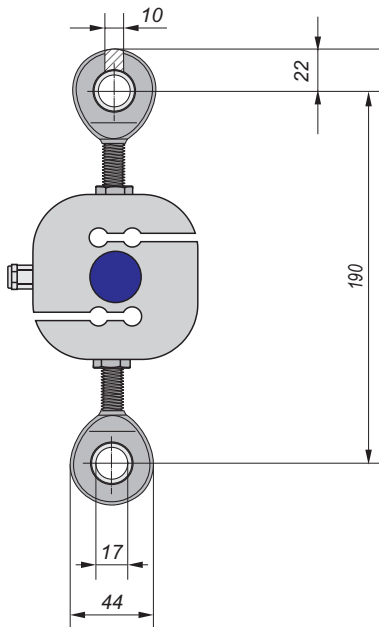
Product	Description	Figure	
Spherical rod ends (for adaption)	EM17		○
Eyebolts (for adaption)	Thread M16		○
Carrying case	Plastic material, for one force gauge		○
Extension connection cable	Length 5 m, including connection socket hand-held terminal		○

● requirement | ● requirement / selection | ○ optionally available

Dimensions ZW 6.0 with accessories

Dimensions in mm

Transducer with spherical rod ends (optional)



Transducer with eyebolts (optional)

