

**Description**

This fully electronic scale is suitable for measuring tensile and compressive loads. It is available for two load ranges, up to 1000 kg and up to 2000 kg. On request, this scale can be supplied for use as a force sensor; the load ranges are then up to 10 kN and up to 20 kN. The dynamometer consists of a sensor and a hand display which are connected by a cable.

The sensor, a shear-force load cell is insensitive to transverse forces. This ensures that the scale provides very accurate measurements. The two mounting threads on the sensor offer numerous installation possibilities; we offer spherical rod ends and eyebolts as accessories to assist you.

A 9V block battery, which can be quickly and easily changed by the user, supplies power to this dynamometer. To conserve the battery, the scale switches off automatically after 8 min if the load does not change.

Features

- | Low weight of scale
- | Nominal loads: 1000 kg or 2000 kg, or 10 kN or 20 kN
- | Taring
- | Call up for maximum reading
- | 9V block battery
- | Spherical rod ends and eyebolts as optional accessories

Applications

- | Dynamometer
- | Force sensor
- | Tensile and compressive applications
- | Weighing operations or force measurement in many different fields

Selection table

Type	Nominal load	Sensitivity / display increments	Mounting threads	Weight of scale (without mountings)	Material of sensor
ZW 6.0 / 1000	1000 kg 10000 N	0.1 kg (display up to max. 999.9 kg) 1 N (display up to max. 9999 N)	2xM16	1.2 kg	Steel
ZW 6.0 / 2000	2000 kg 20 kN	1 kg 0.01 kN	2xM16	1.2 kg	Steel

Technical data

Overload	1.2x nominal load
Measurement rate	10 measurements / sec
Display	4-figures
Accuracy	±0.25 % f.s.
Power supply	9V-block battery
Operating period	8 h continuous
Auto off time	8 min
Operating temperature range	0 °C to +50 °C
Storage temperature range	-20 °C to +70 °C
Degree of protection	
of hand display	IP 40
of sensor	IP 67
Housing of hand display	ABS
Dimensions of hand display	83 mm x 156 mm x 30 mm (b x l x h)
Dimensions of sensor	25 mm x 80 mm x 80 mm (b x l x h)
Cable	FDCY 4 x 0.14 mm ² , length 5 m

Calibration

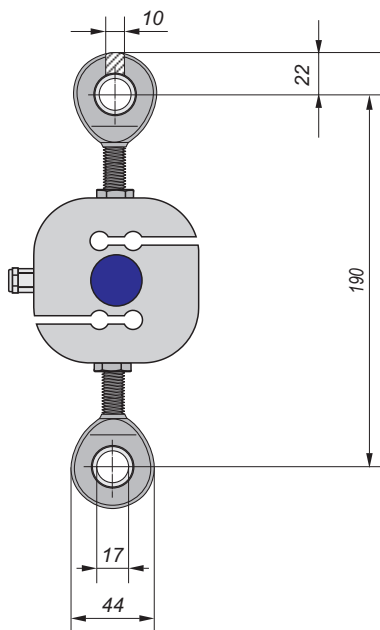
As a scale	
For tension <i>or</i> compression:	display in kg
As a force sensor	
For tension <i>or</i> compression:	display in N / kN
For tension <i>and</i> compression:	display in N / kN
	Accuracy on request

Options

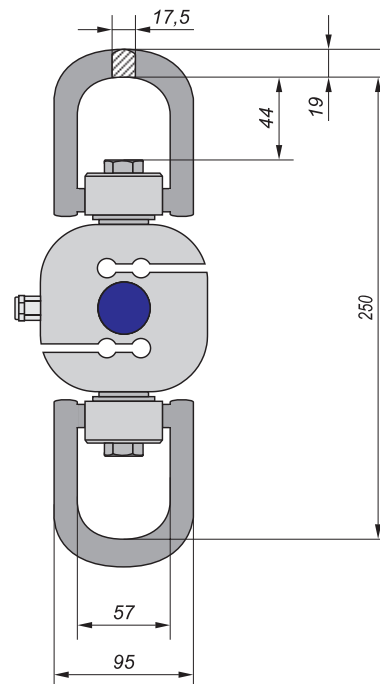
Mechanical overload protection for compression loads
Accessories: spherical rod ends, eyebolts for installation

Dimensions

Sensor with spherical rod ends (optional)



Sensor with eyebolts (optional)



Dimensions in mm