

# Hanging scale Z

ZW 5.0

## **Product information**



#### Description

This fully electronic scale is suitable for measuring tensile and compression loads. It is available for various load ranges between 50 kg and 500 kg. On request, this scale can be supplied for use as a force gauge; the load ranges are then between 500 N and 5000 N. The hanging scale consists of a miniature sensor and a hand-held terminal which are connected by a spiral 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 sensor, a shear-force load cell, is insensitive to transverse forces. This ensures that the scale provides very accurate measurements. In many applications where space is limited, the miniature version of the shear-force load cell is extremely useful. The two mounting threads on the sensor offer numerous installation possibilities; we offer spherical rod ends and eyebolts as accessories to aid installation.

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 scales with power.

### Features

- I Low self-weight
- I Nominal loads of 50 kg to 500 kg,
- or of 500 N to 5000 kN
- I Zero positioning and taring
- I Measure the top load in positive and
- negative direction of force
- I 4 x batteries type AA
- I Requests/settings via one menu
- I Optional with spherical rod ends or eyebolts

#### Applications

- I Dynamometer
- I Force gauge
- I Tensile and compression applications
- I Weighing operations or force measurement in many different fields

## **Selection table**

Туре	Nominal load	Sensitivity / display increments	Mounting threads	Self-weight (without mountings)	Material of sensor
ZW 5.0 / 50	50 kg / 500 N	0.01 kg / 0.1 N	2 x M8	0.5 kg	AI.
ZW 5.0 / 100	100 kg / 1000 N	0.1 kg / 1 N	2 x M8	0.5 kg	AI.
ZW 5.0 / 200	200 kg / 2000 N	0.1 kg / 1 N	2 x M10	0.5 kg	AI.
ZW 5.0 / 300	300 kg / 3000 N	0.1 kg / 1 N	2 x M10	0.6 kg	Steel
ZW 5.0 / 500	500 kg / 5000 N	0.1 kg / 1 N	2 x M10	0.6 kg	Steel

## **Technical data**

	Overload	1.2x nominal load				
	Display	12digits, 2 lines	ι			
	Accuracy	±0.25% f.s. (under tension <i>or</i> compression)				
	(under tension and compression available on request)					
	Measuring rate	configurable: 10, 20 or 100 Hz	l			
	Power supply	4 x battery type AA				
	Operating time	>8h continuous operation				
	Auto-off time	configurable: 8, 30, 60 min / off				
	Operating temperature	0°C to +50°C	(			
	Storage temperature	-20 °C to +70 °C				
	Protection class		I			
	of the hand terminal	IP 40				
	of the sensor	IP 67				
	Housing of the hand terminal	ABS				
	Hand terminal's dimensions	78 mm x 145 mm x 44 mm (w x l x h)				
Dimensions of sensor		20 mm x 40 mm x 40 mm (w x l x h)				
Spiral cable		Length 0.5 m / extended length 4 m				
		-				

### Calibration

As scale			
Under tension <i>or</i> compression:	display in kg		
As force gauge			
Under tension or compression:	display in N		
Under tension and compression:	display in N		
Accuracy on request			

## Options

Sensor with eyebolts (optional) 11

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Mechanical overload protection for compression loads

Accessories: spherical rod ends, eyebolts for installation

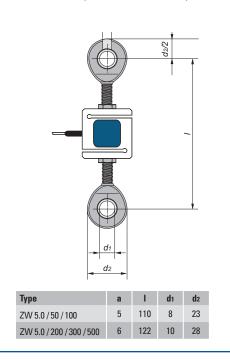
12

160

35

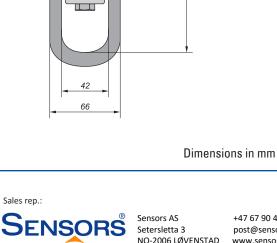
#### Dimensions

Sensor with spherical rod ends (optional)



HKM-Messtechnik GmbH Ziegelhofstraße 228 79110 Freiburg Germany

Phone: +49 761 89607-0 +49 761 89 607-66 Fax: info@hkm-messtechnik.de www.hkm-messtechnik.com



+47 67 90 43 00 post@sensors.no NO-2006 LØVENSTAD www.sensors.no