

Dynamometer – Model 323

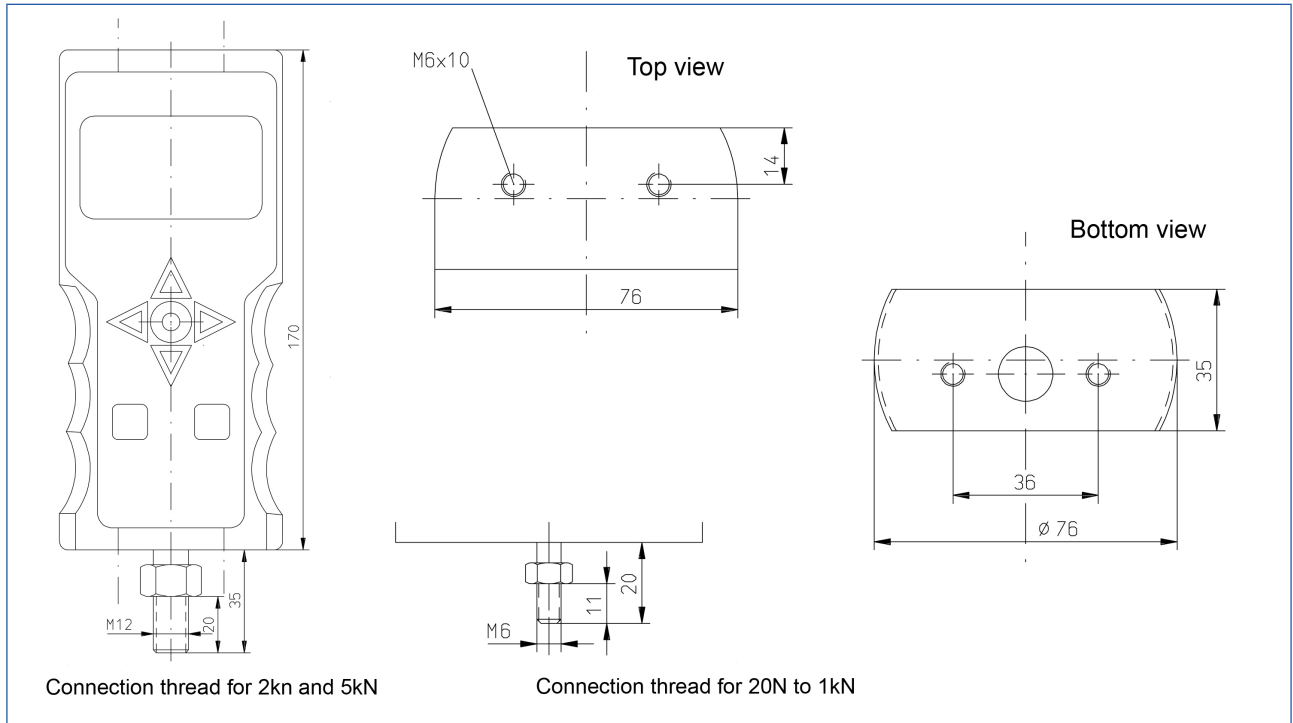


- Capacities: 20N to 5kN
- Integrated force transducer
- Measuring uncertainty: $\leq \pm 0,05 \%$
- Measuring frequency: 50Hz - 2kHz, selectable
- 32bit RISC μ Processor
- Recording of measured curves
- Data export format .csv (compatible to Excel)

The dynamometers of the model series 323 contain a high-resolution force sensor as well as processor-controlled electronic unit with most modern software. The main areas of application for these devices are quality assurance, incoming goods inspection, production and research and development. Particularly operating forces as well as stability of components will be measured (springs, tracers, switches, levers, fasteners, etc.). The model 323 is used cross-sectorally e.g. in food industry, cosmetics, automotive, or medical technology.

Model 323	
Measuring uncertainty	$\leq \pm 0,05 \%$ of nominal value
Processor	32bit RISC μ Processor, 128kB Flash
A/D converter	24bit
Analogue force signal output	0...2V DC
Limit signals	2 digital Open Collector Outputs, programmable
Display	+ 7-digit + decimal point + backlit, graphic, 2,8" LCD display with 128x64 pixel
Indicator Resolution	± 50.000 digits
Power supply	+ 4 customary AA Ni-Mh accumulators + USB charging device + also usable with standard batteries
Operating time	+ ≥ 10 h without recharging + continuous indication of actual state of charge
Measuring data acquisition	Measuring unit selectable (N, kg, lbs)
Measuring frequency	50...2000Hz, selectable
Data logging	+ 128kB Flash memory + exchangable SD memory card (2GB)
Data logging frequency	up to 2000Hz for real-time online data logging
Data export (USB)	+ Connection of the dynamometer for use as a streaming client for constant transfer of measuring values to a pc, (with up to 100 Hz) + Recorded values can be exported in csv. format
Illustration of real-time measuring values	via SoftTest, possible under Windows XP/Vista, Windows 7 and 8
Dimensions (HxWxD)	(170 x 75 x 35) mm
Weight	725 g to 850 g, depending on capacity
Housing	Die-cast aluminum housing RAL7035 with recessed grips and 2 M6 mounting holes, both on each front side and on the backside, for flexible installation in load frames

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Model 323 - Possible Options	
For analogue force signal output:	optional 2-point calibration
For displacement or angular measurement:	connection of an incremental input for encoders
Software SoftTesT	for graphic illustration of real-time measuring values



Modell 323 - Scope of delivery	
Dynamometer with Transportation case	
+ User Manual	
+ USB charging device + USB cable	
+ SD memory card: 2 GB	
for 20N to 1kN: (below, left side)	
Tension hook + Connecting piece (WxL: 19 x 52mm)	
Elongation (L: 47mm)	
Round compression piece (L: 25mm ø 27mm)	
for 2kN and 5kN: (below, right side)	
Compression piece (L: 32mm ø 18mm)	
Elongation (L: 68mm)	
Optional (surcharge): Eye bolt (WxL: 54 x 53mm)	







Optional



