

## FMI-100

### Digital Force Gauge

#### Features

- Accurate measurement with high resolution
- Fast data collection at 1000 Hz for precise capture of force peak
- Selectable engineering units for force and weight measurement
- Rugged aluminium die cast housing
- Long life sensor with 200% overload protection
- Reversible display for test stand application



#### Details



FMI-100 series instruments are digital force gauges designed for quality control and simple tests in various industrial applications. The series cover a wide measuring range up to 500 N (50kg).

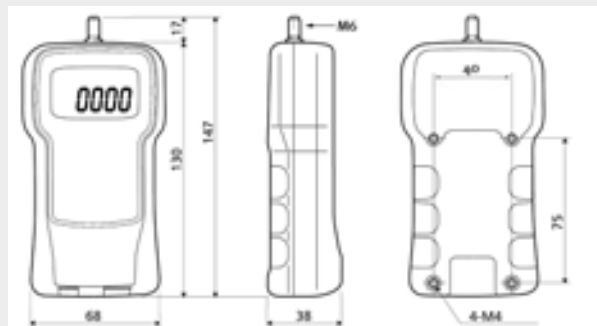
The robust sensor module offers high resolution combined with very high overload capability and is able to measure tensile and pressure forces (pull-/push operation). The captured values are displayed in selectable engineering units. The reversible display allows easy readout also in test stand application.

The high sampling rate (1000Hz), which is achieved through high-speed data processing, captures the peak value very precisely. This enables accurate measurements of tensile strength with high repeatability. The captured values are saved in the memory and can be recalled after the test.

The advantage of the FMI-100 series is the combination of high accuracy and high resolution in one instrument with simple operations.

## Order Info

### FMI-100.....



Standard

**20N ... FMI-100B2** Instrument with integrated rechargeable NiCd-battery,  
**50N ... FMI-100B5** 230VAC adaptor/charger, attachable accessories (flat,  
**200N ... FMI-100C2** notched and cone head, hook, chisel, extension rod, hanger)  
**500N ... FMI-100C5** operation manual and carrying case.

Option

**FMI-950** V-Hook  
**FMI-951** Chuck  
**FMI-952** Clamping jaw (small)  
**FMI-955** Film gripping jaw

## Spec

### FMI-100B2 FMI-100B5 FMI-100C2 FMI-100C5

		0...20 N	0...50N	0...200 N	0...500 N
<b>Measuring Range</b>					
<b>Resolution</b>		0,01 N		0,1 N	
<b>Measuring Principle</b>		bi-directional strain gauge			
<b>Operation Mode</b>	standard	indicates actual value in N   kgf   Lb			
	peak	highest value in N   kgf   Lb			
<b>Accuracy</b>	@ 23°C (F.S.)	+/- 0,2% (+/- 1/2 digit)			
	Tk (absolute)	automatically at power on			
	Tk (relative)	+/- 0,02% (°K)			
<b>Overload</b>	max. admitted	200 % (F.S.)			
<b>Display</b>	type	LCD, 4-digit, 12mm high			
	update time (Standard)	1000 msec   500 msec   333 msec   200 msec   100 msec   50 msec (selectable)			
	update time (Peak)	1 msec			
<b>Memory</b>		peak value			
<b>Power Supply</b>	type	integrated NiCd-battery   AC-adaptor/-charger 230VAC (50Hz)			
	max. battery life	8...12 h			
	Low Batt indication	◇			
<b>Temperature Range</b>	operation	0...40° C			
<b>Weight</b>		450 g			
<b>Dimension</b>	LxWxH	147 x 75 x 38 mm			
<b>Housing Material</b>		aluminium dye cast			
<b>Test stand Fixing</b>		4 x M4, length 6mm			