

FMI-200

Digital Force Gauge with Interface

Features

- Accurate measurement with high resolution
- Fast data collection at 1000 Hz for precise capture of force peak
- RS232C-Interface, analogue output (+/- 1VDC) and digital NPN-output for overload protection in test stand application.
- Long life sensor with 200% overload protection
- Reversible display for test stand application



Details



FMI-200 series instruments are digital force gauges with analogue and serial interfaces designed for quality control purposes as well as design verification and validation. The series cover a wide measuring range up to 500 N (50kg).

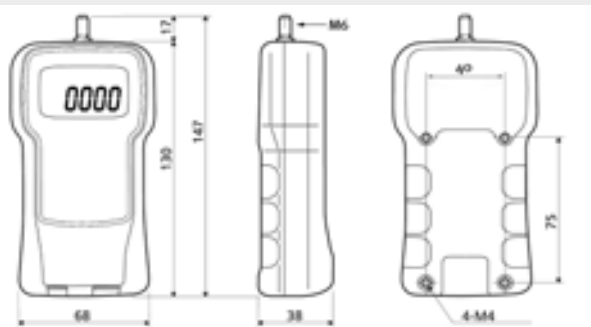
The robust sensor module offers high resolution combined with very high overload capability and is able to measure tensile and pressure forces (pull-/push operation). The captured values are displayed in selectable engineering units. The reversible display allows easy readout also in test stand application.

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.

FMI-200 series digital force gauges are a range of high precision instruments for laboratory and field use with high data processing speed and an excellent cost/performance ratio.

Order Info

FMI-200.....



Standard

2N ... FMI-200A2
 5N ... FMI-200A5
 20N ... FMI-200B2
 50N ... FMI-200B5
 200N ... FMI-200C2
 500N ... FMI-200C5

Instrument with integrated rechargeable NiCd-battery, 230VAC adaptor/charger, attachable accessories (flat, notched and cone head, hook, chisel, extension rod, hanger), serial cable I/O 9-P D-Sub (approx. 1.5m), operation manual and carrying case.

Option

FMI-950
 FMI-951
 FMI-952
 FMI-955

V-Hook
 chuck
 Clamping jaw (small)
 Film gripping jaw

Spec

		FMI-200A2	FMI-200A5	FMI-200B2	FMI-200B5	FMI-200C2	FMI-200C5
Measuring Range		0...2 N	0...5 N	0...20 N	0...50 N	0...200 N	0...500 N
Resolution		0,001 N		0,01 N		0,1 N	
Measuring Principle		bi-directional strain gauge					
Operation Mode	standard	indicates actual value in N kgf Lb					
	peak	highest value in N kgf Lb					
Accuracy	@ 23°C (F.S.)	+/- 0,2% (+/- 1/2 digit)					
	Tk (absolute)	automatically at power on					
	Tk (relative)	+/- 0,02% (°K)					
Overload	max. admitted	200 % (F.S.)					
Display	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					
Memory		peak value					
Power Supply	type	integrated NiCd-battery AC-adaptor/-charger 230VAC (50Hz)					
Interfaces	RS232C	baud rate 2,4 kB 4,8 kB 9,6 kB 19,2 kB (selectable)					
	analog output	+/- 1VDC (12b-bit D/A-converter)					
	overload protection	NPN Transistor					
Temperature Range	operation	0...40° C					
Weight		450 g					
Dimension	LxWxH	147 x 75 x 38 mm					
Housing Material		aluminium dye cast					
Test stand Fixing		4 x M4, length 6mm					