

FMI-400

Digital Force Gauge with Interface

Features

- Accurate measurement of high forces
- Fast data collection at 1000 Hz for precise capture or force peak
- RS232C-Interface, analogue output (+/- 1VDC) and digital NPN-output for overload protection in test stand application.
- Rugged aluminium die cast housing with detachable handles and hanger



Details



FMI-400 series instruments are digital force gauges designed for quality control and simple tests in various industrial applications, especially together with customized test stands. These instruments cover measuring ranges up to 2500 N (250kg).

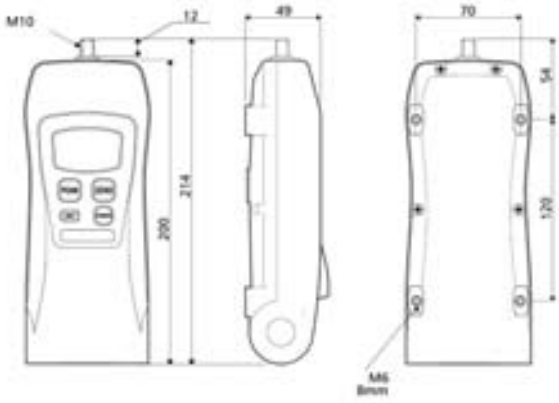
The robust sensor module offers high resolution combined with very high overload capability and is able to measure tensile and pressure forces (pull-/push operation). The captured values are displayed in selectable engineering units. The reversible display allows easy readout also in test stand application.

The programmable serial interface or the analogue output can be used for external data collecting or for printers.

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.

Order Info

FMI-400.....



Standard

1000N ... FMI-400C10
2500N ... FMI-400C25

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

Option

FMI-958
FMI-956
FMI-957

Clamping jaw 2,5 kN
 Chuck 1 kN
 Spring loaded jaw 2,5 kN

Spec

FMI-400C10

FMI-400C25

		0...1000 N	0...2500N
Measuring Range			
Resolution		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	214 x 82 x 55 mm	
Housing Material		aluminium dye cast	
Test stand Fixing		4 x M4, length 6mm	