

FORCE ONE™

FDIX

- PLUG AND PLAY FORCE CELL MODULES
- TENSION & COMPRESSION
- CAPACITIES TO: 200 lbf/100 kgf/1000 N
- USB CABLE & DATA SOFTWARE
- SELECTABLE PEAK FORCE SAMPLING
- ACCURACY: ± 0.2% - Dedicated
± 0.3% - Interchangeable

CONSTRUCTION

- Patented Plug and Play with seven Force Cell Modules.
- High resolution 1.2" H x 1.8" W graphic display.
- Display reverses for upright display with shaft up or down.
- English readable displays: Force, Status, & Menus.
- American standard threads on load shaft and mounting holes.

OPERATION

- Change Force Cell Module to change capacity.
- USB data outputs & charging.
- Selectable baud rates: 9600, 19200, 38400, 57600, or 115200.
- Selectable units of force: lbf, ozf, kgf, gf, and N.
- Selectable peak force sampling: 100 or 1000/second.

POWER REQUIREMENTS

- Rechargeable 20 hour NiMH battery.
- Continuous operation with USB or AC adapter.
- Auto-off conserves battery power.

ACCESSORIES

- NiMH battery, AC adapter/charger, hook and flat, case, USB cable, USB driver & MESURlite software on CD, manual and NIST Calibration Certificate.

ACCURACY

- ± 0.2% of Full Scale - Dedicated.
- ± 0.3% of Full Scale - Interchangeable.

WEIGHT & DIMENSIONS

- 0.8 lb. [360 g] Shipping: 3 lb. [1.4 kg]
- 2 3/4" [70 mm] W x 4" [100 mm] H x 1 1/4" [32 mm] D



Force One™ FDIX mounted on Wagner FTK 200 Spring Tester

ADVANCED SIMPLICITY
PLUG AND PLAY VERSATILITY
DIGITAL CLARITY

\$750*



**All capacities except 200 lbf*

The 4th generation FDIX Force Gage offers several important features including the original **Plug and Play interchangeable Force Cell Modules (FCMI)**. Attach any capacity FCMI to the Force Display Module (FDMIX) and start testing.

Two versions of the FDIX Force Gage are available:

- **Dedicated** - Single Force Cell Module at ± 0.2% accuracy.
- **Interchangeable** - Multiple Force Cell Modules at ± 0.3% accuracy.

FDIX Force Gage features:

Large Backlit Graphic Display - For data and gage control coupled to three user friendly menu control buttons.

Auto Display Reversal - Upright display for up or down load shaft.

Selectable Peak Sampling Rate - 100/second for slow dynamic or static testing and 1000/second for high speed break testing.

Overload Protection - Built-in mechanical overload stop for straining and structural failure protection.

Data Collection Software - Simple MESURlite data logging software and USB cable.

USB 2.0 Computer Interface - Bi-directional data transmission to and from a computer with single data point or continuous data transmission initiated by FDIX or by computer.

Prices and specifications are subject to change without notice.

www.wagnerinstruments.com

CALL US TOLL FREE 800-345-4188





PLUG AND PLAY FORCE GAGE

SELECTING A FORCE ONE™ FDIX FORCE GAGE SYSTEM

Customize an FDIX Force Gage to Suit Your Needs:

- Basic system consists of a Force Display Module and a Force Cell Module.
- Add other Force Cell Modules as needed to increase or decrease capacity.
- Changing Force Cell Modules changes capacity, accuracy and resolution to suit your requirements.
- Switching Force Cell Modules is quick and easy and provides the ultimate in force gage economy.

1.2" x 1.8"
High Resolution
Graphic Display

Aluminum
Housing

Menu Selectable
Features

Firm Grip Design

Auto Calibration
lbf or kgf

Overload Protection

Patent Number 5,471,885



FORCE CELL MODULES

Dedicated: ± 0.2% Accuracy
Interchangeable: ± 0.3% Accuracy

USB Cable & Data
Logging Software

Auto Reversal
of Display

Selectable 100 or 1000
Peak Force Sampling

AC or USB Port
Charges 20 Hour
NiMH Battery

Selectable Units
lbf/ozf/kgf/gf/N

#10-32 American
Standard Threads

TABLE 1 FORCE ONE™ DIGITAL FORCE GAGE

FDIX MODEL	PRICE	FCMI MODULE*	PRICE	CAPACITY / GRADUATION						LOADSHAFT MOVEMENT AT CAPACITY
FDIX 2	\$750	FCMI 2	\$350	2 x 0.001 lbf	32 x 0.02 ozf	1 x 0.0005 kgf	1000 x 0.5 gf	10 x 0.005 N	0.015"	
FDIX 5	750	FCMI 5	350	5 x 0.002 lbf	80 x 0.05 ozf	2.5 x 0.001 kgf	2500 x 1 gf	25 x 0.01 N	0.011"	
FDIX 10	750	FCMI 10	350	10 x 0.005 lbf	160 x 0.1 ozf	5 x 0.002 kgf	5000 x 2 gf	50 x 0.02 N	0.007"	
FDIX 25	750	FCMI 25	350	25 x 0.01 lbf	400 x 0.2 ozf	10 x 0.005 kgf	10000 x 5 gf	100 x 0.05 N	0.007"	
FDIX 50	750	FCMI 50	350	50 x 0.02 lbf	800 x 0.5 ozf	25 x 0.01 kgf	25000 x 10 gf	250 x 0.1 N	0.007"	
FDIX 100	750	FCMI 100	350	100 x 0.05 lbf	1600 x 1 ozf	50 x 0.02 kgf	50000 x 20 gf	500 x 0.2 N	0.007"	
FDIX 200	995	FCMI 200	500	200 x 0.1 lbf	3200 x 2 ozf	100 x 0.05 kgf	100000 x 50 gf	1000 x 0.5 N	0.005"	

ALL MODELS INCLUDE: Force Display Module (FDMIX), Force Cell Module (FCMI), battery, AC adapter/charger, flat head and hook, case, USB cable, USB driver & MESURlite software on CD, manual and NIST Calibration Certificate.

* **Optional Interchangeable Force Cell Modules** - Interchangeable with original Force Cell Module of any FDIX Force Gage.

** **Overload protection** to 250 lbf for all capacities except 200 lbf overload protection to 400 lbf.

TABLE 2 FORCE ONE™ OPTIONAL ACCESSORIES

FD/S-1	Steel Hook - Large (100 lbf)	\$20*	FDIX/CA210	Cable, USB, FDIX to PC, Male A	\$30*
FD/B-1	Steel Hook - XL (200 lbf)	35*	FDIX/CA120	Cable, RS232, FDIX to PC, 9 pin/DB	75**
FD/S-2	Flat Head (5/8" diameter)	20*	15-1004	MESURgauge Force Testing Software	495***
FD/S-3	Cone Point	20	FD/NMH	NiMH Battery - 9V Size	5
FD/S-4	Chisel Head	20	FDIX/AC-USB	AC Adapter with USB Cable - 110/220 Vac	25
FD/S-5	Vee Tip	20			
FD/S-6	Extension Rod	20			
FD/A-7	Hinged Hook - Small (20 lbf)	45			
FD/S-7	Hinged Hook - Large (100 lbf)	45			
FD/HDL	Aluminum Handles	95			
FD/RT	1 cm2 Flat Rubber Tip	25			
FD/CP2	2" Compression Plate	25			

* Flat head and appropriate steel hook included with FDIX.

Note: All FDIX implements have American Standard #10-32 threads.

* Replacement USB cable, driver and MESURlite software on a CD.

** Requires USB port on the computer.

*** Feature rich force testing software - force vs. distance.

Note: MESURlite download is also available at: www.mark-10.com

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FORCE ONE™ FDIX

ADVANCED SIMPLICITY WAGNER FDIX™ PLUG AND PLAY FORCE GAGE WITH USB OUTPUT

FORCE DISPLAY MODULE – FDMIX
Front Half
Electronics & Digital Display

FORCE CELL MODULE – FCMI
Rear Half – Interchangeable
Load Ecell and Battery

USB 2.0 Communication

High Resolution
White Backlit
Graphic Display

Auto Calibration lbf, or kgf

2000 Count 5 Digit Display

Interchangeable
Force Cells

Selectable lbf/ozf/kgf/gf/N

Firm Grip Design

AC Charger or
USB Port Charging
20 Hour NiMH Battery

Overload Protection

Selectable 100 or 1000
Peak Sampling Rate

Aluminum Housing



*With Patented Interchangeable
Plug and Play Force Cell Modules*

Patent Number 5,471,885

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