

FORCE ONE™

FDIX

**ADVANCED SIMPLICITY
 PLUG'N PLAY VERSATILITY
 DIGITAL CLARITY**

\$650*

- PLUG 'N PLAY FORCE CELL MODULES
- TENSION & COMPRESSION
- CAPACITIES TO: 200 lbf/100 kgf/1000 N
- BI-DIRECTIONAL RS232 OUTPUT
- SELECTABLE PEAK FORCE SAMPLING
- ACCURACY: ± 0.2% - Dedicated
 ± 0.3% - Interchangeable

CONSTRUCTION

- Patented Plug 'n Play with seven Force Cell Modules.
- 5 digit, 0.5" LCD and 5 button keypad.
- Split housing for upright display with shaft up or down.
- Displays: LO BAT, T, C and PEAK.
- American standard threads on load shaft and mounting holes.

OPERATION

- Change Force Cell Module to change capacity.
- Bi-Directional computer/printer RS232 output.
- Selectable baud rates: 4800, 9600, 19200 or 38400.
- Selectable units of force: lbf, kgf, N and ozf.
- Selectable peak sampling: 100 or 1000 samples/second.

POWER REQUIREMENTS

- Rechargeable 50 hour NiMH battery.
- Continuous operation with AC adapter/charger.
- Auto-off conserves battery power.

ACCESSORIES

- NiMH battery, AC adapter/charger, hook and flat, case, 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: 2 lb. [1 kg]
- 2 3/4" [70 mm] W x 4" [100 mm] H x 1 1/4" [32 mm] D



*All capacities except 200 lbf

The **Unique Force One™ FDIX** is a low cost digital force gage with many useful features beginning with **interchangeable Plug 'n Play Force Cell Modules**. Select any capacity from **2 to 200 pounds**, attach it to the Force Display Module and start testing.

Two versions of FDIX are available:

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

The basic FDIX consists of a **Force Display Module (FDMIX)** and a **Force Cell Module (FCMI)**. Add other Force Cell Modules as needed to increase or decrease the FDIX Force Gage capacity. Changing Force Cell Modules changes capacity, accuracy and resolution.

Selectable Peak Sampling Rate FDIX primary function, measuring static and dynamic forces, is enhanced with keyboard selectable **100 or 1000/second peak sampling rates** - 100/second for slow dynamic or static testing, 1000/second for high speed break testing.

Overload Protection - FDIX has built-in overload stops with **strain gage** and **structural failure protection**.

Bi-Directional RS232 Interface - Versatile bi-directional RS232 data transmission to and from a computer is provided with **single data point or continuous data** transmission initiated by FDIX or by computer.

Data storage is provided with a **500 data point memory** for later recall and transmission to a computer.



Force One™ FDIX mounted on Wagner STK100 Spring Tester

Prices and specifications are subject to change without notice.

CALL US TOLL FREE 800-345-4188





PLUG 'N PLAY FORCE GAGE

SELECTING A FORCE ONE™ FDX FORCE GAGE SYSTEM

Customize an FDX 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.

- Large 0.5" 5 Digit Display
- Aluminum Housing
- Menu Selectable Features
- Firm Grip Design
- Auto Calibration
- Overload Protection

Patent Number 5,471,885



FORCE CELL MODULES
 Dedicated: ± 0.2% Accuracy
 Interchangeable: ± 0.3% Accuracy

Selectable 100 or 1000 Peak Sampling

Bi-Directional RS232

Rechargeable NiMH 50 hour Battery

Selectable Units lbf/kgf/N/ozf

American Standard Threads

TABLE 1 FORCE ONE™ DIGITAL FORCE GAGE

MODEL	PRICE	FCMI* MODEL	PRICE	CAPACITY / GRADUATION						OVERLOAD PROTECTION TO	LOADSHAFT MOVEMENT AT CAPACITY
FDIX 2	\$650	FCMI 2	\$350	2 x 0.002 lbf	32 x 0.04 ozf	1 x 0.001 kgf	10 x 0.01 N	250 lbf	0.015"		
FDIX 5	650	FCMI 5	350	5 x 0.005 lbf	80 x 0.1 ozf	2.5 x 0.002 kgf	25 x 0.02 N	250 lbf	0.011"		
FDIX 10	650	FCMI 10	350	10 x 0.01 lbf	160 x 0.2 ozf	5 x 0.005 kgf	50 x 0.05 N	250 lbf	0.007"		
FDIX 25	650	FCMI 25	350	25 x 0.02 lbf	400 x 0.5 ozf	10 x 0.01 kgf	100 x 0.1 N	250 lbf	0.007"		
FDIX 50	650	FCMI 50	350	50 x 0.05 lbf	800 x 1 ozf	25 x 0.02 kgf	250 x 0.2 N	250 lbf	0.007"		
FDIX 100	650	FCMI 100	350	100 x 0.1 lbf	1600 x 2 ozf	50 x 0.05 kgf	500 x 0.5 N	250 lbf	0.007"		
FDIX 200	850	FCMI 200	450	200 x 0.2 lbf	3200 x 4 ozf	100 x 0.1 kgf	1000 x 1 N	400 lbf	0.005"		

ALL MODELS INCLUDE: Force Display Module (FDMIX), Force Cell Module (FCMI), battery, AC Adapter/Charger, flat head and hook of appropriate capacity, case, manual and NIST Calibration Certificate.

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

TABLE 2 FORCE ONE™ OPTIONAL ACCESSORIES

FD/S-1	Steel Hook - Large (100 lbf)	\$20*	FDIX/CA110	Cable - RS232 FDX to PC	75
FD/B-1	Steel Hook - XL (200 lbf)	45*	15-1004	MESURgauge Force Testing Software	395*
FD/S-2	Flat Head (5/8" diameter)	20*	FDIX/KI	KeyInjector Software - PC Software Link	50**
FD/S-3	Cone Point	20	FD/NMH	NiMH Battery - 9V Size	5
FD/S-4	Chisel Head	20	FDI/AC110	AC Adapter - 110 Vac	25
FD/S-5	Vee Tip	20	FDI/AC220	AC Adapter - 220 Vac	40
FD/S-6	Extension Rod	20			
FD/A-7	Hinged Hook - Large (100 lbf)	45			
FD/S-7	Hinged Hook - Large (100 lbf)	45			
FD/ HDL	Aluminum Handles	95			
FD/ RT	Rubber Tip	20			
FD/ CP2	2" Compression Plate	25			

- * Flathead and appropriate hook included with FDX.
- All FDX implements have American Standard #10-32 threads.

* Feature rich force testing software - force vs. distance..
 ** Links data received at PC port to operational software, e.g., Excel, etc.

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FORCE ONE™ FDX

ADVANCED SIMPLICITY WAGNER FDX™ PLUG 'N PLAY FORCE GAGE WITH RS232 OUTPUT

FORCE DISPLAY MODULE
Contains Microprocessor,
Electronics & Digital Display

FORCE CELL MODULES
Dedicated: ± 0.2% Accuracy
Interchangeable: ± 0.3% Accuracy
2, 5, 10, 25, 50, 100 & 200 lbf

Aluminum Housing

Rechargeable NiMH
50 Hour Battery

Large 5 Digit 0.5" Display

Bi-Directional RS232
computer Interface

Menu Selectable
Features

Firm Grip Design

Auto-Calibration

Overload Protection

Selectable 100 or 1000
Peak Force Sampling Rate

Selectable Units:
lbf/kgf/N/ozf

American Standard Threads

Patent Number 5,471,885



With Patented Interchangeable
Plug'N Play Force Cell Modules

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