

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™ FDI_X** 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 FDI_X are available:

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

The basic FDI_X 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 FDI_X Force Gage capacity. Changing Force Cell Modules changes capacity, accuracy and resolution.

Selectable Peak Sampling Rate FDI_X 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 - FDI_X 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 FDI_X or by computer.

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



Force One™ FDI_X 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*	FDIX/ CA-USB	Cable - RS232 to USB	35*
FD/S-2	Flat Head (5/8" diameter)	20*	15-1004	MESURgauge Force Testing Software	495**
FD/S-3	Cone Point	20	FDIX/KI	KeyInjector Software - PC Software Link	50***
FD/S-4	Chisel Head	20	FD/NMH	NiMH Battery - 9V Size	5
FD/S-5	Vee Tip	20	FDI/AC110	AC Adapter - 110 Vac	25
FD/S-6	Extension Rod	20	FDI/AC220	AC Adapter - 220 Vac	40
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.

* Includes cable, driver and manual on a CD; converts RS232 at serial port to USB.
 ** 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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MULTI-CAPACITY FORCE GAGE

FORCE ONE™ FDIX

ADVANCED SIMPLICITY

WAGNER FDI™ PLUG 'N PLAY FORCE GAGE WITH RS232 OUTPUT

FORCE DISPLAY MODULE
Contains Microprocessor,
Electronics & Digital Display

Aluminum Housing

Large 5 Digit 0.5" Display

Menu Selectable
Features

Firm Grip Design

Auto-Calibration

Overload Protection



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

Rechargeable NiMH
50 Hour Battery

Bi-Directional RS232
computer Interface

Selectable 100 or 1000
Peak Force Sampling Rate

Selectable Units:
lbf/kgf/N/ozf

American Standard Threads

*With Patented Interchangeable
Plug'N Play Force Cell Modules*

Patent Number 5,471,885

SELECTING A FORCE ONE™ FDI FORCE GAGE SYSTEM

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www.wagnerinstruments.com

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