

Digital force analyzer

IMADA Co., LTD 1/4

## FA PLUS

**High speed sampling (2000 times/sec)**

**Various measurements with load cells**

**Easy to draw force-displacement curve with operation equipment.**



\* Use as force-displacement unit: F-S Master, which is complete unit to make a graph of force-displacement curve.

\* Not included load sells. Please select one of our load cells to purchase this product. Products are calibrated and shipped with the selected load cell.

[Use]

Used for strength test for various materials (tensile test, compression test, shearing test, peeling test etc)

[Feature]

- More precise value is measured especially in impulse experiment by high-speed force sampling (2000 times/sec).
- Separated load cell is efficient when used for dangerous measurement or used in small space.
- High efficiency of measurement as factory automation system with external/output signal.
- Use with various load cells by IMADA.
- If sensor is broken, change to spare load cells swiftly (Need to calibrate by standard weight.)

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# Digital Force Analyzer

## [Specifications]

Item	Operation
Measurement unit	N(kN), kgf(gf), lbf(ozf)
Display style	Track/Peak mode select
Display	4digit LCD
Sampling rate	2000 times/sec
LCD display update	10 times / sec
Capacity	Approx. 200% F.S. (More than 110 %)
Force Accuracy	-0.2~0.2%F.S -1~11digit (with DPU load cells)
Use heat	0~+40 degrees
Humidity capacity	20~80%RH
Power	AC100V~240V Free input
Functions of communication output	USB, Serial (RS232C),Analog (-2~+2V), Various comparator output (Total 5), Overload output.
Other functions	Digital filter HI/Lo, Auto zero clear etc
Trimmer	ZERO, GAIN for calibration
External connecting switch	ZERO, SEND, PEAK, CONF
Attachment	Instructional manual, Power cable, Spare fuse, USB cable, Driver CD-ROM,
Dimension	210*160*99mm (Except projection)
Weight	1.5kg (body)

## [Software of force value reader: FAP Logger]

Driver CD-ROM includes free software FAP Logger for data management. Connect FA Plus to computer with USB cable. Send measurement value (+peak, -peak or present force value) to computer each time. Save measurement value in CSV file.

\* FAP Logger is free software. Your computer may not handle it.

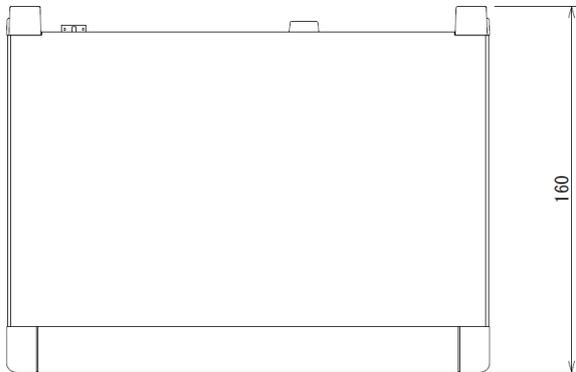


OS	Windows2000 (SP3 later)/XP (SP2 later)/Vista/7 You cannot use this software in 64 bit version of Windows 2000 and XP.
Operating environment	Microsoft .NET Framework 2.0 Microsoft Internet Explorer 5.01 later

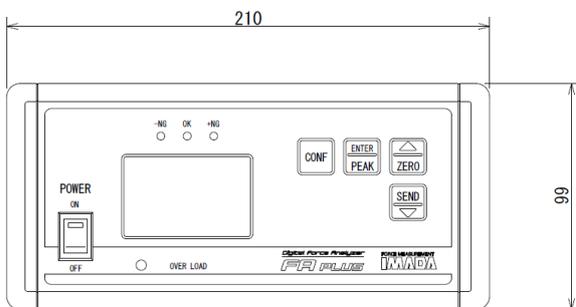
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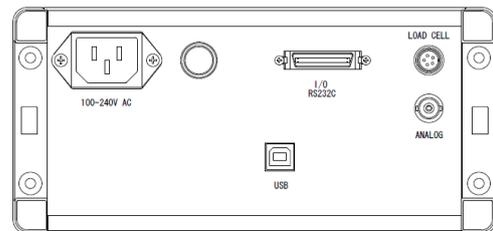
[Dimension]



Please contact us for the attachment of adaptor to your equipment.



Front



Back

[Caution]

- Not included load cells. Please select into our load cells.
- It cause a sensor damage if the force of bending, twisting and exceeding capacity is applied, regardless of on/off power supply,
- Avoid using under the condition of sudden change of temperature, extremely hot or humid, wet or dusty places.
- The content is subject to change without notice.
- Although based on operating frequency or force range, measurement accuracy deteriorates little by little.
- We recommend periodical calibration.
- Please note the allowable values are a little different by the selecting unit of the amplifier. Please contact us if you need the details.

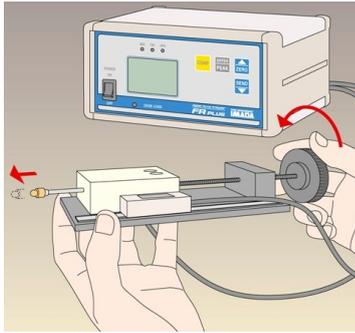
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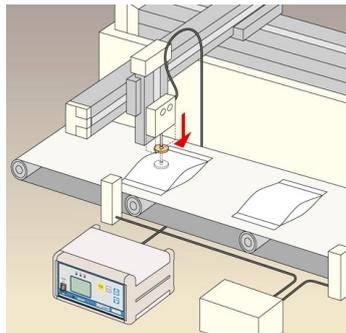
[Example of measurement unit with FA-PLUS]

There are USB, RS232C, comparator output, overload output and external point as functions of external input/output.

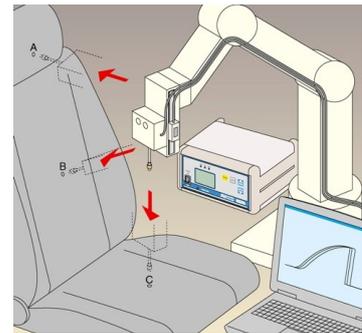
It is programmable and measurement can be more efficient using with PLC and so on.



Handy measurement



Automated endurance test



Feeling test at flexible position

As the other measurement, force-displacement measurement is also possible by the test stand equipping a linear scale.

Please feel free to contact us if you need the detail.

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