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# 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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[Specifications]

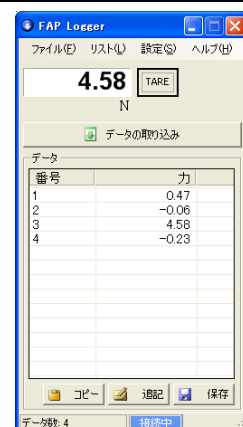| Item | Operation |
|---|---|
| Measurement unit | N(kN),　kgf(gf),　ldf(ozf) |
| Display style | Track/Peak mode select |
| Display | 4digit LCD |
| Sampling rate | 2000 times/sec |
| LCD display update | 10 times / sec |
| Capacity | Approx. 200% F.S. (More than 110 %) |
| Force Accuracy | -0.2~0.2%F.S -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.
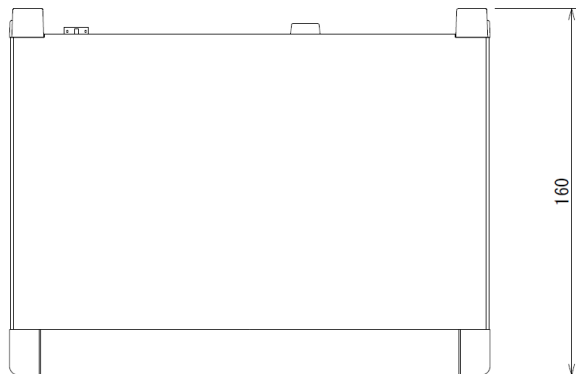Connect FA Plus to computer with USB cable.
Send measurement value (+peak, -peak or present force value) to computer each time. Save measurement value in CSV file.

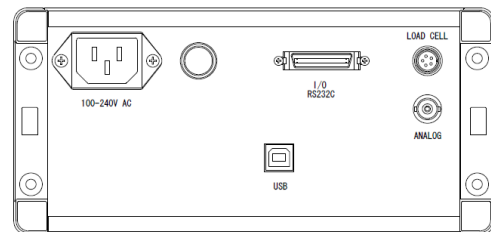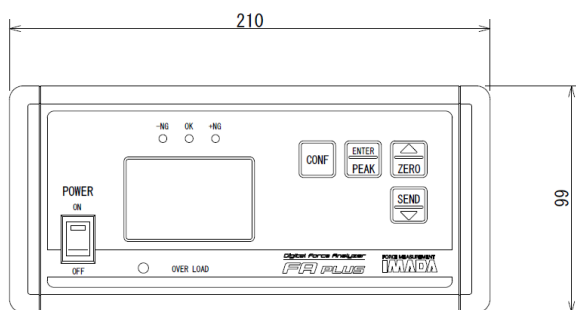　* FAP Logger is free software.　Your computer may not handle it.

| OS | Windows2000 (SP3 later)/XP (SP2 later)/Vista/7 <br> 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.

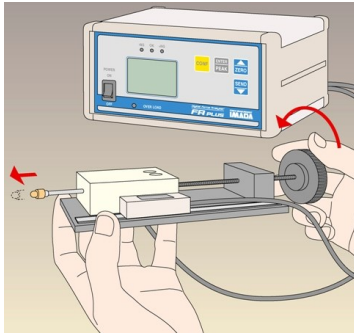Front                                          Back

[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.

2015/07/17

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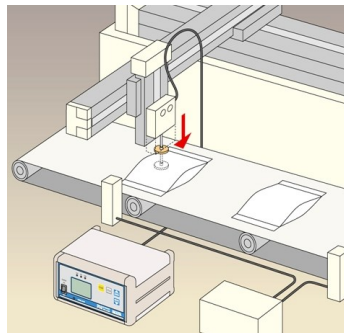
[Example of measurement unit with FA-PLUS]

There are USB, RS232C, comparator output, overload output and external point as functions of external input/output.
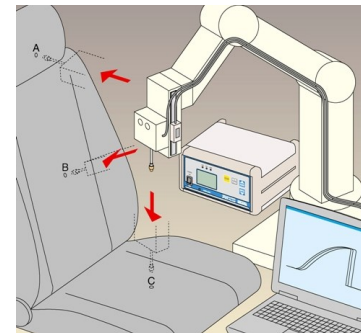It is programmable and measurement can be more efficient using with PLC and so on.


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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