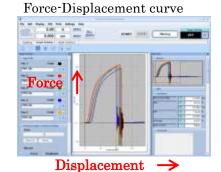


Measuring unit to draw force-displacement curve easily. Ideal for feeling testing or material characteristic evaluation since force-displacement relation is clearly visible.

Simple operation Easy setting

Precise

High sampling speed High sensitivity



Various models are available.

various models are avai	various models are available.				
Portable (50N)	Compact (500N)	Professional evaluation (1000N)	High capacity (2500N)		
FSA-MSL	FSA-0.5K2	FSA-1KE	FSA-2.5K2		

Useful functions

- Output displacement values when load values reach the peak.
- Reset displacement values at chosen load values.

## [Applications]

Switch feeling test	Rubber tension test	And more	
		<ul> <li>Cushion softness test</li> <li>Material bending test         <u>Suitable for</u> </li> <li><u>characteristic evaluation</u> </li> </ul>	



#### [Model]

Model	Туре	Capacity	Feature
FSA-MSLN	Portable	50N	Manual system.
FSA-0.5K2N		500N	Automatic system.
FSA-1K2N	Standard	1000N	Testing speed, the number of testing, pause time can be chosen.
FSA-2.5K2N		2500N	> Ideal for repetition/durability test
			Automatic system.
	High		Precise measurement due to high rigidity.
FSA-1KEN	performance	1000N	In addition to functions of 0.5-2.5K2 series,
	functionality		more functions such as travel set up, 5
			running patterns memory, etc. are available.

\* \_\_\_\_\_N: You can select range according to your test.

# FSA- 0.5K2-200N

Force range (capacity) choices 2N, 5N, 20N, 50N, 100N, 200N, 500N, 1000N, 2500N,

Please choose the most appropriate range for your test

Please select a force range lower than the capacity of this model.

#### [Configuration examples] FSA-1KE-50N 1 Force gauge 50N Force-Displacement measurement is 2 Test stand 3 Cable possible with this FSA unit. 4 Software 5 Attachment This unit includes 1 to 5 items to \*1 Optional attachment perform force-displacement measurement 5 With included software, FS curve can be drawn, and 5 graphs at maximum can be drawn in a table, which is useful for comparing and evaluating the graph data. \*1 With optional attachments, countless application is possible such as tension test, peeling test, etc. 5 Some Included (See page 4 for further information >>) attachment

#### IMADA CO.,LTD. Force-Displacement Measurement Unit FSA



## [Specifications]

	FSAN	
Force	N, kgf, lbf (Switchable) *	
Displacement	mm, inch (Switchable) *	
	2N(200gf), 5N(500gf), 20N(2kgf), 50N(5kgf), 100N(10kgf),	
	200N(20kgf), 500N(50kgf), 1000N(100kgf), 2500N(250kgf)	
Force	4 digit (e.g. Resolution of 5N force gauge is 0.001N)	
Displacement	0.001mm (on software Force Recorder Professional)	
Displacement	0.01mm (on force gauge display)	
Force	+/-0.2% F.S. +/-1digit	
	+/-0.1mm +/-1 digit (with no load)	
Displacement	When maximum force is applied, the stand may be deformed	
	upward and downward (approx0.5mm to +0.5mm).	
	MSL:80mm:Manual adjustment knob	
	0.5K2:240mm:10-300mm/min	
	1K2:295mm:10-300mm/min	
	2.5K2:310mm:10-300mm/min	
Speed	1KE:280mm:0.5-600mm/min	
	*1 Please refer to page 2 for further information about model	
	*2 "Stroke" means the maximum length from the top of force	
	gauge to the table of test stand. Therefore, stroke varies	
	depending on the force gauge and the attachments combined.	
	2000 data / sec	
	10 data / sec	
	USB, Serial(RS232C), Analog(Approx. +/-2V),	
	Comparator, Overload	
	Stroke limit, Overload prevention(*1), Force control(*2),	
torized test stand	Emergency stop	
torized test stand	*1 We cannot assure the perfect prevention against sensor	
	break-down.	
	*2 The value of force control is specified by the absolute value.	
zed test stand	AC100V-240V Free input	
erature/Humidity	Temperature:0 - 40°C Humidity:20 -80%RH	
	Instruction manual, Inspection certificate, Power cable, 2 pcs of	
	spare hues, Driver CD-ROM(including software for data log	
	"ZT-Logger"), Graphing software "Force-Recorder Professional". ational model. Please note that this unit is different from Japanese	
	Displacement Force Displacement Force	

\*These are the specifications for International model. Please note that this unit is different from Japanese domestic model and international one.

Operating environment	OS: Windows XP/Vista/7(32bit/64bit)	
	CPU: Pentium4(1GHz more) more recommended	
Hardware	Memory: 2GB more recommended	
	Hard disk: 10GB (data storage area) more	
Plat form	.NET Framework4 more	
Execute environment	Microsoft Internet Explorer 6.0 later	
	Windows Installer 3.1 later	

## [Software operating environment]



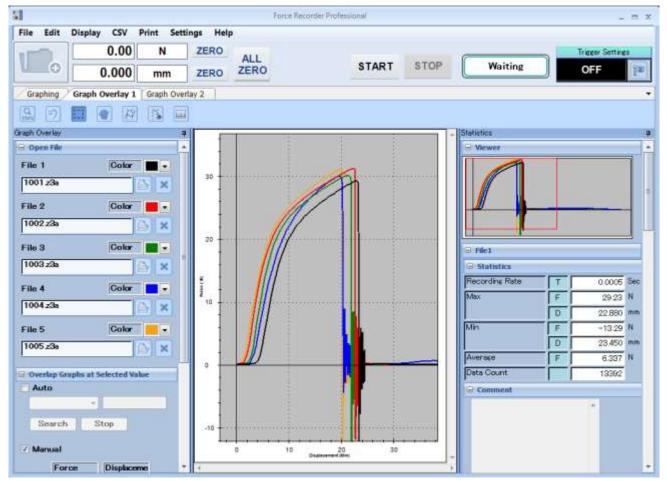
#### [Option Attachment (Not included in unit)]

IMADA offers variety of attachments for limitless force testing applications. Besides, we can customize attachments only for you to suit your unique measurement needs.

Urethane made	Pantograph	Film	Fixture for
compression jig	grip	grip	90 degree peel testing
UR series	PGC series	FC series	P90-200N

\* Please refer to the specification sheet of each attachment.

# [Graphing software image]



## [Cautions]

- Please do not add load over capacity of a force gauge to prevent sensor break-down.
- Displacement reading error can occur due to deflection of a sensor or test stand when load is added.
- Optional attachment and PC are NOT included in this unit.
- Software could not work in some operating environment.

Please feel free to contact us for measurement solutions, distributor's information in your country, and so on. TEL: +81-(0)532-33-3288 Email: info@forcegauge.net