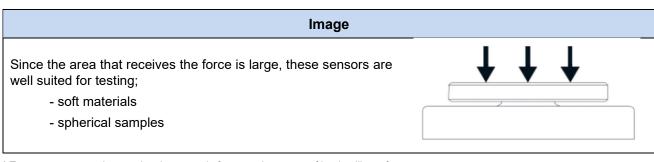


Flat Type Compression Load Cell CLFX/CFX series

- Sensor surface with large area, suitable for soft and/or spherical samples
- Thin (CLFX) and small (CFX) type available for measurements in limited space
- 5 selectable amplifiers to fit for purpose
- Graphing software (separately sold) available for analysis of results



* IP (Ingress Protection) is a standard which is based on IEC Standard for solid foreign materials, electric devices for water and cabinet.
 * eZ-Connect series load cells are interchangeable and can be connected to one amplifier without adjustment, therefore suitable for measurement of different types of force (e.g. tension and torque) or ranges (e.g. small force and high capacity).



* To get accurate testing results please apply force on the center of load cell's surface.

Testing Examples

- Integration into a variety of machine including tactile test system, medical equipment, and press molding equipment
- Application in production line including measurement and control of electronic equipment such as mobile phones, battery manufacturing process, etc.
- Measurement of gripping force of cabinet drawers, etc.

IMADA CO., LTD. Flat Type Compression Load Cell CLFX/CFX series



	Specifications				
Model	CLFX series	eCLFX series	CFX series	eCFX series 🚳	
Capacity		Refer to	page 3	·	
A +4	+/- 2.0% F.S. or		+/- 1.0% F.S. or		
Accuracy *1	less	-	less	-	
			0.5-1.0mV/V		
	$0.7.4$ Fm $\lambda/\lambda/$	-	(20N)		
Rated Output	0.7-1.5mV/V		1.5-2.2mV/V	-	
			(50N/200N)		
Recommended Voltage	5V-10V DC		5V-10V DC		
(Allowable Voltage)	(10V DC)	-	(15V DC)	-	
Safe Overload Rating		150)%		
Recommended Temperature		-10 to 60 deg	rees Celsius		
(Allowable Temperature)		(-20 to 80 deg	rees Celsius)		
Cable	Approx. 3m				
Dimensions	See [Dimensions]				
Weight	Approx. 60g Approx. 55g			ox. 55g	
Protection Rating (*2)		IP	64		

*1 It is the accuracy of the sensor only. Refer to page 3 for the accuracy of combinations with the amplifier (indicator) under [Models of Sensors Combined with Indicators (Separated sensor models)] and [Models of eZ-Connect Series (Sensor Interchangeable Model)].

*2 IP is only approved for the sensor part. The amplifier (indicator), the connector parts, and cable are not secured.

* An amplifier (indicator) is required to read values. Refer to "Amplifiers (Indicators)" below for details.

* When ordering load cell without indicators, three connector types are available. See [Models of Load Cell Only] on page 3 for details. The load cells are not guaranteed either for the operability with your own amplifier (indicator) or for the accuracy as a result of such use.

	Amplifiers (Indicators)					
Туре	Sensor Combined with Amplifier (Indicator) *1				ect series 🐵 ngeable Amplifier	
Feature	high accu	racy (accuracy of load	d cell only)	no adjustm	ent required	
Indicator	Handheld Type	Handheld Type	Desk Type	Desk Type	Handheld Type	
Indicator	ZTS series	ZTA series	FA Plus2	eFA Plus2	eZT	
Image	load cell					
	- For measurement with high accuracy			- For a wide variety	of use	
Use	- Displacement out		out			
056	-	- Data save to USB memory				
		-	- For integration		-	

* Refer to each specification for details.

*1 A load cell and the indicator are adjusted together. Readjustment and calibration are required when changing load cells.



[Models of Load Cell Only]

	Model	Capacity	Thread
CLFX	CLFX-50N	50N	
series	CLFX-500N	500N	
CFX	CFX-20N	20N	M2
	CFX-50N	50N	
series	CFX-200N	200N	

[Connector Type]

Code	-5P	-6P	-OC	
Connector			Open End (without connector)	
	5 pin	6 pin		
Connection	ZT series, FA Plus2, etc.	Some discontinued IMADA products	For integration	
	*Check the connector shape of your equipment to connect.			

* When ordering load cell only, select the connector type and add the code to the end of the load cell model; for example, the product model for CLFX-500N with 5 pin is "CLFX-50N-5P".

[Models of Sensors Combined with Indicators (Separated Sensor Models)]

- CLFX series

Model		Conseitu	Accuracy	Dianlay	Decelution	
ZTA	ZTS	FA Plus2	Capacity	(*1)	Display	Resolution
ZTA-CLFX-50N	ZTS-CLFX-50N	FAP2-CLFX-50N	50N	±2.0%F.S.	50.00N	0.01N
ZTA-CLFX-500N	ZTS-CLFX-500N	FAP2-CLFX-500N	500N	or less	500.0N	0.1N

- CFX series

Model		Conscitu	Accuracy	Diamlay	Decelution	
ZTA	ZTS	FA Plus2	Capacity	(*1)	Display	Resolution
ZTA-CFX-20N	ZTS-CFX-20N	FAP2-CFX-20N	20N	.4.0% = 0	20.00N	0.01N
ZTA-CFX-50N	ZTS-CFX-50N	FAP2-CFX-50N	50N	±1.0%F.S. or less	50.00N	0.01N
ZTA-CFX-200N	ZTS-CFX-200N	FAP2-CFX-200N	200N	01 1035	200.0N	0.1N

* Refer to the specification of indicator for details.

*1 It is the accuracy of the sensor and indicator combined.

[Models of eZ-Connect Series (Sensor Interchangeable Model) @]

Мо	del	Consoitu	A courceou (*1)	Diaplay	Desclution
eCLFX series	eCFX series	Capacity	Accuracy (*1)	Display	Resolution
-	eCFX-20N	20N	eCLFX: +/-2.2%F.S.	20.00N	0.01N
eCLFX-50N	eCFX-50N	50N	or less	50.00N	0.01N
-	eCFX-200N	200N	eCFX: +/-1.2%F.S.	200.0N	0.1N
eCLFX-500N	-	500N	or less	500.0N	0.1N

* An indicator (amplifier) for eZ-Connect is required. Refer to the specification of indicator (amplifier) for details.

*1 It is the accuracy of the sensor and indicator (amplifier) of eZ-connect series combined.

IMADA CO., LTD. Flat Type Compression Load Cell CLFX/CFX series



[Custom-made Cables]

Extended Cable Length	Extends the length of a cable for gauge to PC connection or load cell to amplifier connection
Enhanced Cable Flexibility	Changes the cable to a high-flex cable to reduce risks of disconnection

* Contact us for details of custom-made solutions.

[Related Products]

- Fixing Belt for Operativity Measurement FBO-CFX

Product Image	How to wear	Features
	*the amplifier is not included.	 -Dedicated fixing belt for CFX series to attach it to your finger or the tool edge -Convenient to measure sample operating force in an actual usage scene -Flexibly usable for testing of samples with unique forms or in narrow spaces * Refer to each specification sheet for further information. *Customization of this product is available for CLFX.

- Other Load Cells

Standard type DPU series	Coin shaped type LM series	Pen type PN-50N For automatic doors DM- 2000N	Pen type PN-50N For automatic doors DM- 2000N
High accuracy load cell for general use with 2N to 500N capacity	Coin size load cell for compression	Pen-shaped sensor for measuring operation force of small samples	Designed for measurement of automatic door closing force
DRU Minina OC		· · · · ·	

- Graphing Software Force Recorder Series

Image	Features
	 Available in 4 types; Light, Standard, Professional, and Plus Plots graphs of force-displacement at real time via USB connection at max. 2000Hz or 1000Hz (Plus) Comment function for keeping a note of testing conditions such as testing speed Overlays up to 5 graphs (Standard and Professional) or 10 graphs (Plus) Analyzes torque-angle relationships (Professional) * Refer to each specification sheet for further information.

IMADA CO., LTD. Flat Type Compression Load Cell CLFX/CFX series



- Cables

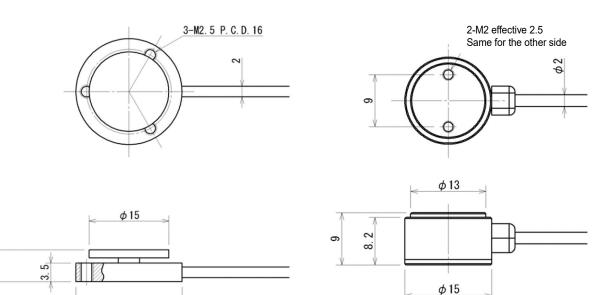
Model	Туре	Purpose of use
CB-108	Analog cable	To connect to a multi meter, oscilloscope
CB-118	Analog cable (For -AN option)	To connect to a multi meter, oscilloscope
CB-208	RS232C cable	To connect to a PC or your own system
CB-908	Open end connection cable	Output cable for loose wire 37 pin (Useful for connecting your own connector)
CTB-A	Terminal Block Cable	To connect to an external equipment such as PLC or to such and linear scale (*1)

*1 The linear scale connection is limited to models equipped with the displacement output function (ZTA series, eZT, FA Plus2, eFA Plus2).

[Dimensions]

CLFX series

CFX series



Unit: mm

[Cautions]

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- Information in this document is subject to change without prior notice.
- This document is product descriptions and handling precautions, and do not guarantee various characteristics or safety.
- This product is designed for force measurement purpose only.
- Do not copy and use this content without authorization.

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- Do not apply force more than its capacity or from incorrect direction to the measuring shaft.

- Do not use this product in the environments including fierce temperature changes, high temperature, high humidity, near water, dusty place.

IMADA CO., LTD

99 Jinnoshinden-cho aza Kanowari Toyohashi Japan 441-8077 Tel: +81-(0)532-33-3288 Fax: +81-(0)532-33-3866 E-mail: <u>info@forcegauge.net</u> Website: <u>https://www.forcegauge.net/en/</u>



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