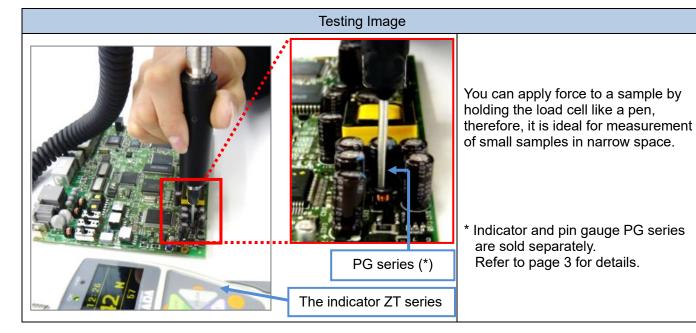


Pen type load cell PN-50N

- Pen shaped load cell for compression and tension testing
- Designed for compression testing of small samples directly by hand
- Suitable for measuring switches and other small parts



An amplifier (indicator) is required to read values. Refer to "Available Amplifiers (Indicators)" on page 3 for details.



eZ-Connect is composed of an amplifier and load cells.

- Allows easy replacement of load cells without additional adjustment
- Suits different types of tests such as tension and torque, measuring from low load to high load, etc.

Available load cells have a mark 🥮





Specification					
Model	PN-50N	ePN-50N			
Capacity	5	50N			
Accuracy	+/-2.0%	F.S or less			
Rated output	1mV / V+/-10%	-			
Nonlinearity	0.3%R.O.	-			
Hysteresis	0.3%R.O				
Recommended voltage (Allowable applied voltage)	5V DC or AC(8V DC or AC)	-			
Safe overload rating	150%R.L.				
Working environment	0 to +50 de	egree Celsius			
(Allowable temperature)	(-10 degree Celsius	to +60 degree Celsius)			
Temperature influence for 0 point	0.05%/ degree Celsius	-			
Temperature influence for output	0.05%/ degree Celsius	-			
Weight	Approx. 50g				
Cable	Approx. 2m				
Mount screw	M6 P1.0				
Dimension	Refer to [Dimension]				

^{*} An amplifier (indicator) is required to read values. Refer to page 3 [Available amplifiers (indicators)] for the detail.

^{*} When ordering load cell without indicators, three connector types are available. Refer to below table for details. For example, when ordering PN-50N with 5 pin, the product model is "PN-50N-5P".

Code	-5P	-6P	-OC	
Connector shape	onnector shape		Without Connector (Open end)	
	5 pin	6 pin	(0)	
Connect to	ZTA/S series, FA Plus2, etc	Some discontinued IMADA products	For installing in equipment	
	*Please check the connector shape of your equipment to connect.			

Cable Options					
	Code *1	Cable Length	Description		
Extended Cable	-()m	Max. 10m *2	It is an option to change the cable to extended cable which connects to the amplifier (indicator).		
Flexible Cable	-BR()m	Max. 10m	It is an option to change the cable to high flexible cable to reduce the risk of breakage during bending.		

^{*1} Put Cable Length before "m" of Code. The order increment of the optional cable length is every meter.

^{*} 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.

^{*2} The cable length is the sum of the standard cable length and the extended cable one.

^{*} To maintain the signal quality, the cable length is limited.

^{*} When ordering cable option, add the cable option code before the connector shape code. For example, when ordering PN-50N-5P with 10m cable length, the product model is "PN-50N-10m-5P".



	Available Amplifiers (Indicators)					
Туре	Separated Sensor Model		eZ-Connect series Sensor Interchangeable Amplifier			
Indicator	Handheld type ZTS series	Handheld type ZTA series	Desktop type FA Plus2	Desktop type eFA Plus2	Handheld type eZT	
Image	load cell		O MATERIAL STATE OF THE STATE O			
Feature	- Handheld use - Specific purpose - Higher accuracy	- Handheld use - Specific purpose - Higher accuracy - I/O displacement - Data saving to USB	- Desktop use - Specific purpose - Higher accuracy	- Desktop use - Load cell interchangeable (such as measurement of tension and torque, or low and high load)	- Handheld use - Load cell interchangeable (such as measurement of tension and torque, or low and high load)	

^{*} Refer to the specification sheet of each amplifier (indicator) for the details.

[Models of sensors combined with indicators (Separated sensor models)]

Model		Capacity	Connective Assurance (*4)	Dioplay	Decelution	
ZTS	ZTA	FA Plus2	Capacity	Accuracy (*1)	Display	Resolution
ZTS-PN-50N	ZTA-PN-50N	FAP2-PN-50N	50N	+/-2.0% F.S. or less	50.00N	0.01N

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

[eZ-Connect series (Sensor interchangeable model)]

Model		Capacity	Accuracy (*1)	Display	Resolution
Amplifier: eZT Load cell: ePN-50N	Amplifier: eFA Plus2 Load cell: ePN-50N	50N	+/-2.2% F.S. or less	50.00N	0.01N

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

[Related products]

[Related products]		
Pin gauge PG series	Optional Cables	
It is a columnar fixture with diameter from $\phi 2\text{mm}$ to 5mm, which can be used in narrow spaces.	Various cables are available to suite your needs.	
	Analog cable (3m): CB-108	
	Analog cable (For -AN option): CB-118	
	RS232C cable (3m): CB-208	
	Open end cable (3m): CB-908	
	Terminal block cable (1m) : CTB-A	



Grapi The image is Force Recorders Standard.

Graphing Software: Force Recorder

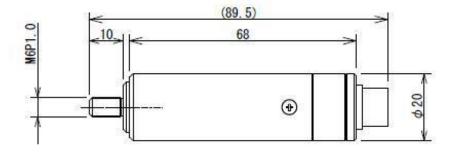
- Plots graphs of force-time at real time via USB connection at 2000Hz
- Comment function for keeping a note of testing conditions such as testing speed
- Overlays up to 5 graphs
 (Standard, Professional edition)
- Analyzes force-displacement relationships (Professional edition)
 - * Refer to each specification sheet for further information.

[Other load cell line-up] (We offer a wide range of load cells to fit your measurement needs.)

Standard DPU series	Coin shaped type LM series	Extra small type LMU series	For automatic doors DM-2000N
High accuracy built-in type	Coin size load cell for	Extra small load cell for both	Ideal for measurement of
for general use	compression	tension and compression	automatic door closing force
DPU Nilo G	11		

^{*} Refer to each load cell specification for details.

[Dimensions]



Unit: mm

[Cautions]

- 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.
- 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.

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