

Pen type load cell PN-50N

Pen shaped load cell for compression and tension.
It is possible to compress small parts, holding by hands.
Ideal for measurement for small parts or switches.

Pen type load cell : PN-50N

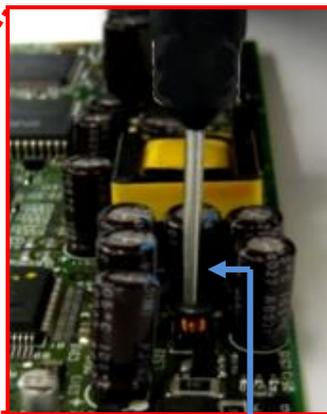
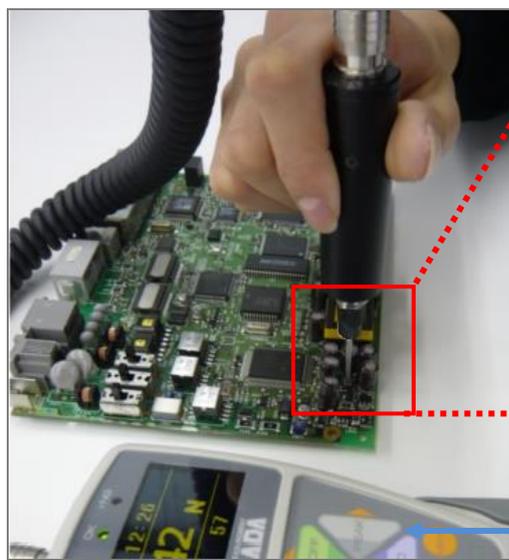
Capacity :50N



*An indicator is required for reading load values. Please refer to Page 3 and 4 for the detail.

[Using images]

Compression test for small parts.



Applying loads by hands, it can measure at small parts.

PG series (*)

The indicator ZT series

*An indicator and PG series are sold separately. Please refer to Page 3 and 4.

[Specification]

Model	PN-50N
Capacity	50N
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 (allowable temperature)	0~+50 degree Celsius (-10 degree Celsius ~+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 the dimension

[eZ-Connect series load cell specification]

Model	ePN-50N
Capacity	50N
Accuracy	+/-2.0%F.S or less
Safe overload rating	150%R.L.
Working environment (allowable temperature)	0 degree Celsius~+50 degree Celsius (-10 degree Celsius~+60°C)
Weight	Approx.50g
Capacity	Approx.2m
Screw	M6 P1.0
Dimensions	Refer to the dimension

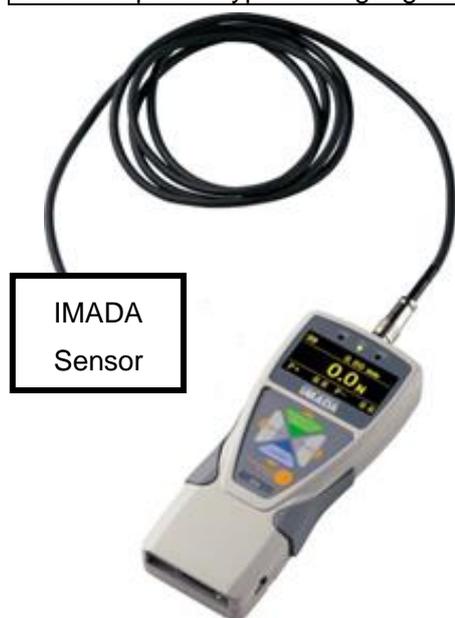
*Please refer the Page 4 for the eZ connect series detail.

**Force value display/ Data management/ Operating external device
are ALL possible by combining with IMADA amplifier.**

→There are 3 selectable amplifiers.

Amplifier	Feature
ZT series	High accuracy and Easy operation
FA-Plus	Stable installation
eZ-Connect series :eZT	Interchangeable multiple sensors

Sensor separate type force gauge ZT series



- [Remote operation](#)
→Measurement value is possible to check easily apart from the sensor. Users can keep safe distance even if the test involves some danger like Crushing test.
- [Easy data management on PC](#)
→Included software “ZT-Logger” helps to export continuous data to PC. Furthermore, separately-sold software “Force Recorder” enables to draw into a graph in real time at 2000Hz. It also inputs sampling date and time at the same. Data management can be easy.
- [Various outputs for operating external devices](#)
→It realizes machine working control by force, Pass/Fail decision and more.

*It is inappropriate to interchange the load cells.
*The accuracy adjustment and the calibration are necessary whenever changing load cells.

Accuracy Guarantee
-The inspection certificate by force data is attached.
-Please request us the calibration certificate if necessary.

[The range list connecting with ZT series]

Model		Capacity	Accuracy(*1)	Display	Resolution
ZTA-PN-50N	ZTS-PN-50N	50N	+/-2.0%F.S. or less	50.00N	0.01N

* Please refer to the each amplifier specification for the detail.
*1The accuracy is only available for combinations with sensor separate type ZT series.

Desktop amplifier FA Plus



- [The box shape realizes easy installations on a desk or in equipment](#)
- [The sampling rate is equals to ZT series 2000Hz.](#)

Accuracy Guarantee
-The inspection certificate is attached only when the below set models are ordered.
-The inspection certificate is NOT attached when FA Plus and the load cell are separately ordered.
-Please request us the calibration certificate if necessary.

[The range list connecting with FA Plus]

Model	Capacity	Accuracy(*1)	Display	Resolution
FAP-PN-50N	50N	+/-2.0%F.S. or less	50.00N	0.01N

* Please refer to the each amplifier specification for the detail.
*1The accuracy is only available for combinations with FA Plus.

eZ-Connect: Interchangeable sensor amplifier eZT



- [ONE amplifier can be used with multiple load cells.](#)
→It is possible to be carried out different range, circumstance and other measurements by changing load cells.
- [Basic functions are equal to ZTA.](#)

Accuracy Guarantee

- The inspection certificate by force data is NOT attached.
- Please request us the calibration or the calibration document if necessary.

[The range list connecting with eZT]

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

* Please refer to the each amplifier specification for the detail.

*1The accuracy is only available for combinations with eZT series.

[Related products]

Pin gauge				
	feature			
	The columnar fixture which diameter is φ2mm~5mm. It can be insert tiny spaces.			
	Model	The head diameter	The head length	Mount screw
	PG-2	φ2mm	20mm	M6
	PG-3	φ3mm		
PG-4	φ4mm			
PG-5	φ5mm			

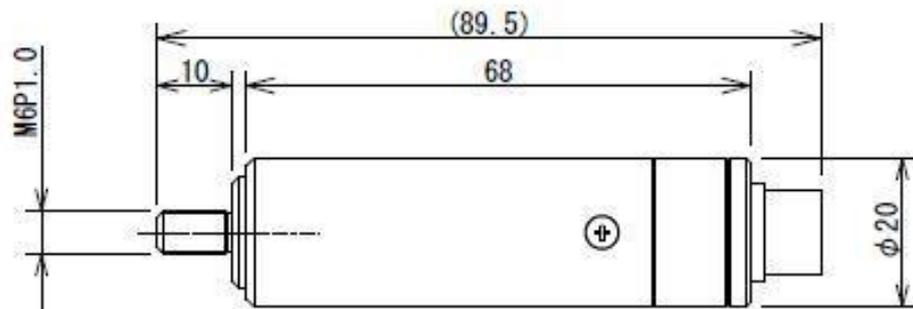
[Other load cell line-up]

Variety of load cells are available for your needs.

Standard DPU series	Coin shaped type LM series	High accuracy coin shaped type LC series	Extra small type LMU series	For automatic doors DM-2000N
High accuracy built-in type. For general use.	Coin size load cell for compression	High accuracy coin shaped load cell for compression	Sensor diameter is only 18mm	Ideal to measure automatic door closing force.

*Please refer to the each load cell specification for the detail.

[Dimension]
PN-50N



[Caution]

- This product is designed for force measurement only. Do not use it for other purpose.
- Please pay close attention to install this products.
 - Never apply strong force or impact especially on the sensing direction.
 - Do not apply bending or torsion stress when setting up the sensing shaft to a measuring object.
- Do not use in the condition of rapid temperature changes, high temperature, high humidity, near water and dusty place.
- The contents may be changed without notice in advance.
- Please note the allowable values are a little different by the selecting unit of the amplifier. Please contact us if you need the details.

[Please feel free to contact us \(+81-\(0\)-532-33-3288\) for your measurement.](tel:+81-0-532-33-3288)