

Load cell for Two-wheeler Handbrakes PK1-500N Load cell for Vehicle Foot Pedals PK2-1500N

Measure force acting on foot pedals or handbrakes.

You can simply clip or mount on the load cell to perform measurements.



Setting image

*Grip the load cell and the brake together to measure force after mounting.



Setting image

*Clip a load cell onto a pedal and step them on together to measure force.

What is IP?

IP(International Protection) is a standard which is based on IEC Standard 529 for solid foreign materials, electric devices for water and cabinet.

IPxx

- └─ The second code
(IP 0 to 8 for water penetration)
- └─ The first code
(IP 0 to 8 for human body and sold foreign materials)

IP65

- └─ Water projected in powerful jets (12.5 mm nozzle) against the enclosure from any direction shall have no harmful effects at least for 3 minutes 100 liter per minute.
- └─ No ingress of dust; complete protection against contact (dust tight)


: eZ-Connect series

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

Enables to replace load cells without additional adjustment.

Suitable for different types of tests such as tension and torque, measuring from low load to high load etc.



Available load cells have a mark .

Specifications			
Model	PK1-500N	PK2-1500N	ePK2-1500N 
Application	For two-wheeler hand brakes	For vehicle foot pedals	
Capacity	500N	1500N	
Accuracy (*1)	+/-1.0%F.S. or less		
Cable length	Approx.1.5m		
Dimensions	See [Dimensions]		
Weight	Approx. 150g	Approx. 270g	
International Protection (*2)	IP65(*)		




* An amplifier (indicator) is required to read values. Please refer to below “Available amplifiers (indicators)” for the detail.

*1 The accuracy is only load cell itself. Please refer to below “Separated Sensor Model” and “eZ-Connect series” for the accuracy of combinations with the amplifier (indicator).

*2 IP65 is only approved for the load cell itself. The amplifier (indicator) and the connector parts are not approved.

Code	-5P	-6P	-OC
Connector shape	 5pins	 6pins	Without Connector
Connect to	ZT series, FA Plus2, etc.	Some discontinued IMADA products	For installing in equipment
*Please check the connector shape of your equipment to connect.			

* When ordering only the load cell, PK1-500N or PK2-1500N, select the connector shape and add the code to the end of the load cell model. e.g. For selecting 5pins: PK1-500N-5P

Available Amplifiers (Indicators)					
Type	Separated Sensor Model			eZ-Connect series Sensor Interchangeable Amplifier	
Indicator	Handy type ZTS series	Handy type ZTA series	Desktop type FA Plus2	Desktop type eFA Plus2	Handy type eZT
Image					
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)

* Please refer to each indicator specification for the detail.

[Separated Sensor Model]

Model			Capacity	Accuracy (*1)	Display	Resolution
ZTA	ZTS	FA Plus2				
ZTA-PK1-500N	ZTS-PK1-500N	FAP2-PK1-500N	500N	±1.0% F.S. or less	500.0N	0.01N
ZTA-PK2-1500N	ZTS-PK2-1500N	FAP2-PK2-1500N	1500N	±1.0% F.S. or less	1500N (1.500kN)	1N (0.001kN)






*1 The accuracy is only available for combinations with the amplifier (indicator).

[eZ-Connect series]

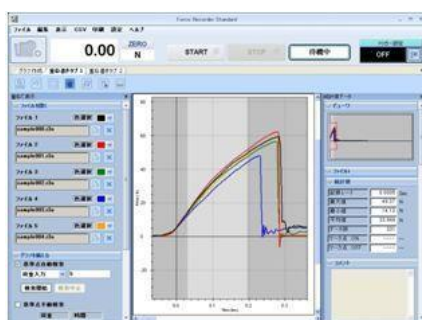
Model		Capacity	Accuracy (*1)	Display	Resolution
Indicator: eZT Load cell: ePK2-1500N	Indicator: eFA Plus2 Load cell: ePK2-1500N	1500N	±1.2% F.S. or less	1500N (1.500kN)	1N (0.001kN)

*1 The accuracy is only available for combinations with the amplifier (indicator).

[Related products]

Standard type DPU series	Coin shaped type LM series	High accuracy coin shaped type LC series
High accuracy built-in type load cell for general use.	Coin size load cell for compression.	High accuracy coin shaped load cell for compression.
		
Extra small type LMU series	For automatic doors DM-2000N	Optional cables
Sensor diameter is only 18mm	Fit to measure automatic door closing force.	Various cables are available.
		<div> Analog cable(3m): CB-108 </div> <div> Analog cable (For -AN option): CB-118 </div> <div> RS232C cable (3m): CB-208 </div> <div> Open end cable (3m): CB-908 </div>

Graphing Software: Force Recorder



*The image is Force Recorders Standard.

- You can make graphs of force-displacement at real time via USB connection at 2000Hz.
- You can write memo on each graph. You may write down testing conditions such as testing speed.
- 5 graphs at maximum can be overlaid. (Standard, Professional edition)
- Enables to analyze force-displacement relationships. (Professional edition)

* Please refer to each specification for further information.

Custom-made Order

Extend the length of a cable

Enables to extend the length of a cable for gauge-PC connection or load cell-amplifier connection.

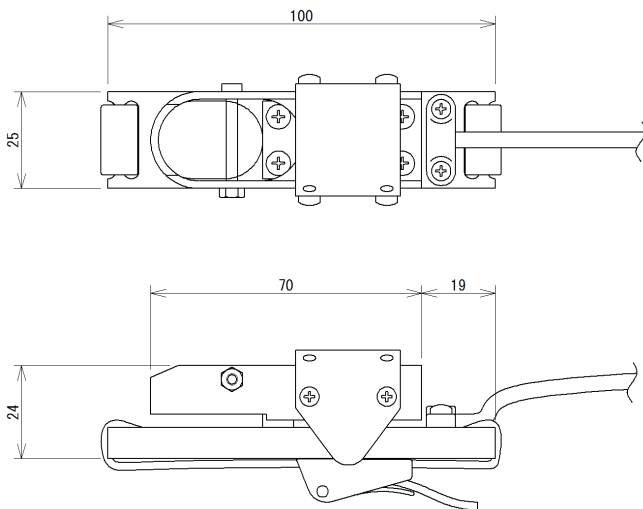
Enhance flexibility of a cable

Enables to offer high-flex cable to reduce risks of disconnection.

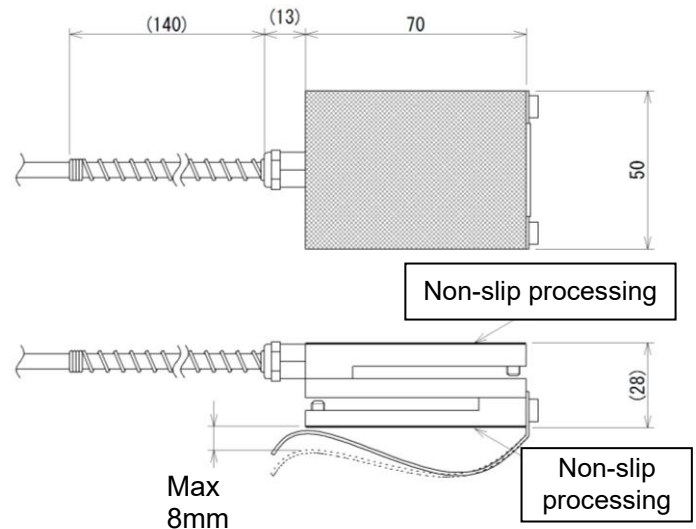
* Contact us for details such as cable length etc.

[Dimensions]

PK1-500N



PK2-1500N



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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