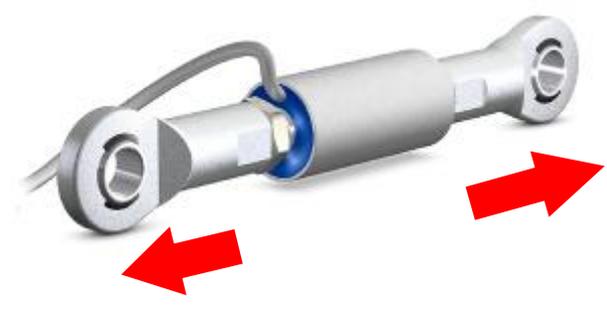


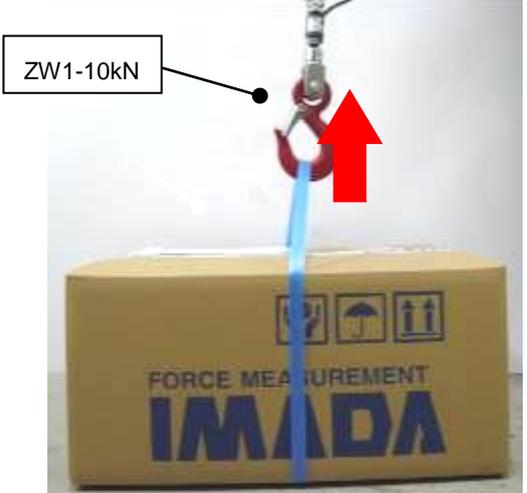
## High Capacity Tension Load Cell ZU series/ ZW1-10kN

- Ideal load cells for high capacity tensile measurement.
- Fixing is easy with included Rod ends (ZU series) and a hook (ZW1-10kN).
- ZW1-10kN can be used as a crane scale.

ZU series	ZW1-10kN
Capacity:5000N~20kN	Capacity:10kN
 <p>Approved IP67</p>	 <p>Approved IP67</p>

\*An indicator is required to read force value. Please refer Page 2 for the detail.

### [Using Image]

	<ul style="list-style-type: none"> <li>-Easy raising with letting a shaft through (ZU series) or hooking a large sample(ZW1-10kN)</li> <li>-Checking the force on a near indicator due to the sensor is separated.( We accept changing the cable length. Please feel free to contact us +81-(0)532-33-3288)</li> </ul>
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[Load cell specification]

Model	ZU series	ZW1-10kN
Capacity	Refer to the model list	10kN
Rated output	+/-1.5mV/V	—
Nonlinearity	+/-0.5% R.O	+/-0.5% R.O
Allowable voltage	10V DC	—
Safe overload rating	120%	120%
Working environment (allowable temperature)	-10~50 degree Celsius (-30~50 degree Celsius)	0~50 degree Celsius (-20~0 degree Celsius)
Temperature influence at 0 point	0.005%/ degree Celsius	—
Temperature influence for output	0.005%/ degree Celsius	—
Cable	ZU-5000N:Approx 0.5~4m(Curl cord) ZU-10kN/20kN: Approx.5m	Approx. 0.5~4m(Curl cord)
Dimensions	Refer to the dimension	Refer to the dimension
International Protection	IP67	IP67

\*IP is only approved for the load cell. An amplifier (an indicator)/ the connecting part/ the connector part are not approved.

[eZ-Connect series load cell specification]

Model	eZU series	eZW1-10kN
Capacity	Please refer to the model list	10kN
Accuracy	+/-1.0% F.S or less	+/-1.0% F.S or less
Safe overload rating	120%	120%
Working environment (allowable temperature)	-10~50degree Celsius (-30~50degree Celsius)	0~50degree Celsius (-20~70degree Celsius)
Cable	ZU-5000N:Approx.0.5~4m(Curl cord) ZU-10kN/20kN:Approx.5m	Approx.0.5~4m(Curl cord)
Dimensions	Please refer to the dimension	Please refer to the dimension
International Protection	IP67	IP67

\*1 IP is only approved for the load cell. An amplifier (an indicator)/ the connecting part/ the connector part are not approved.

\*2 Please refer to the page 4 for the eZ-Connect series detail.

[Load cell model list]

Model	eZ-Connect series Model	Capacity
ZU-5000N	eZU-5000N	5000N
ZU-10kN	eZU-10kN	10kN
ZU-20kN	eZU-20kN	20kN

Model	eZ-Connect series Model	Capacity
ZW1-10kN	eZW1-10kN	10kN

**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-ZU-5000N	ZTS- ZU-5000N	5000N	+/-1.0%F.S. or less	5000N(5kN)	1N(0.001kN)
ZTA-ZU-10kN	ZTS- ZU-10kN	10kN	+/-1.0%F.S. or less	10.00kN	0.01kN
ZTA-ZU-20kN	ZTS- ZU-20kN	20kN	+/-1.0%F.S. or less	20.00kN	0.01kN

Model		Capacity	Accuracy(*1)	Display	Resolution
ZTA-ZW1-10kN	ZTS-ZW1-10kN	10kN	+/-1.0%F.S. or less	10.00kN	0.01kN

\* Please refer to the each specification for the detail of the each specification.  
\*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-ZU-5000N	5000N	+/-1.0%F.S. or less	5000N(5kN)	1N(0.001kN)
FAP-ZU-10kN	10kN	+/-1.0%F.S. or less	10.00kN	0.01kN
FAP-ZU-20kN	20kN	+/-1.0%F.S. or less	20.00kN	0.01kN

Model	Capacity	Accuracy(*1)	Display	Resolution
FAP-ZW1-10kN	10kN	+/-1.0%F.S. or less	10.00kN	0.01kN

\* 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	eZU-5000N	5000N	+/-1.2%F.S. or less	5000N(5.000kN)	1N(0.001kN)
	eZU-10kN	10kN	+/-1.2%F.S. or less	10.00kN	0.01kN
	eZU-20kN	20kN	+/-1.2%F.S. or less	20.00kN	0.02kN

Amplifier Model	Load cell model	Capacity	Accuracy(*1)	Display	Resolution
eZT	eZW1-10kN	10kN	+/-1.2%F.S. or less	10.00kN	0.01kN

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

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

[Other load cell line-up]

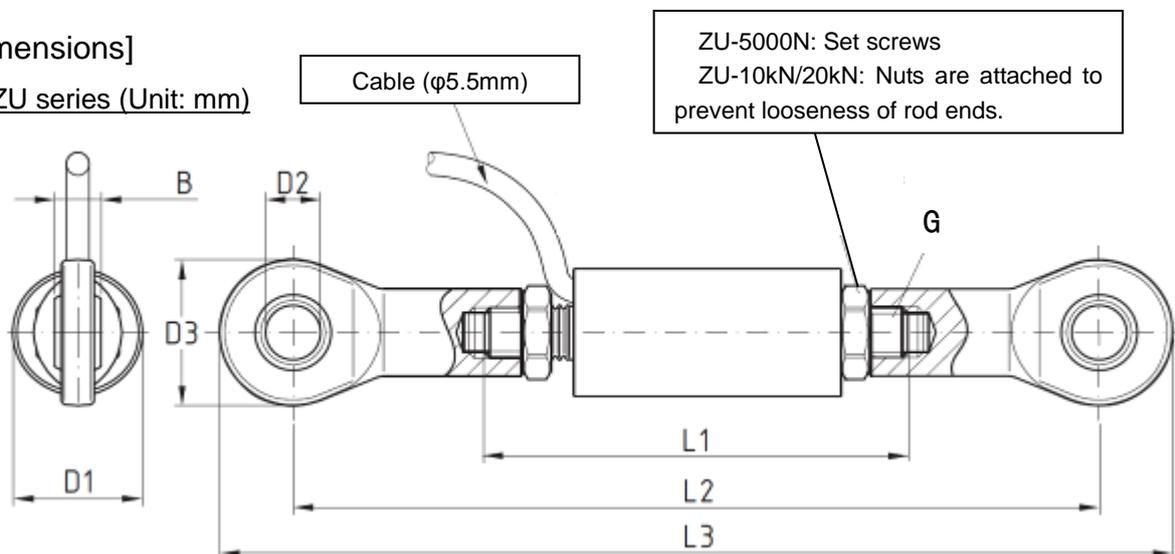
Variety of load cell is available

High capacity load cell DPU series	High capacity load cell SW3 series
	
High accuracy built-in type load cell for general use.	High capacity waterproof type.

\*please refer to the each specification for the each detail.

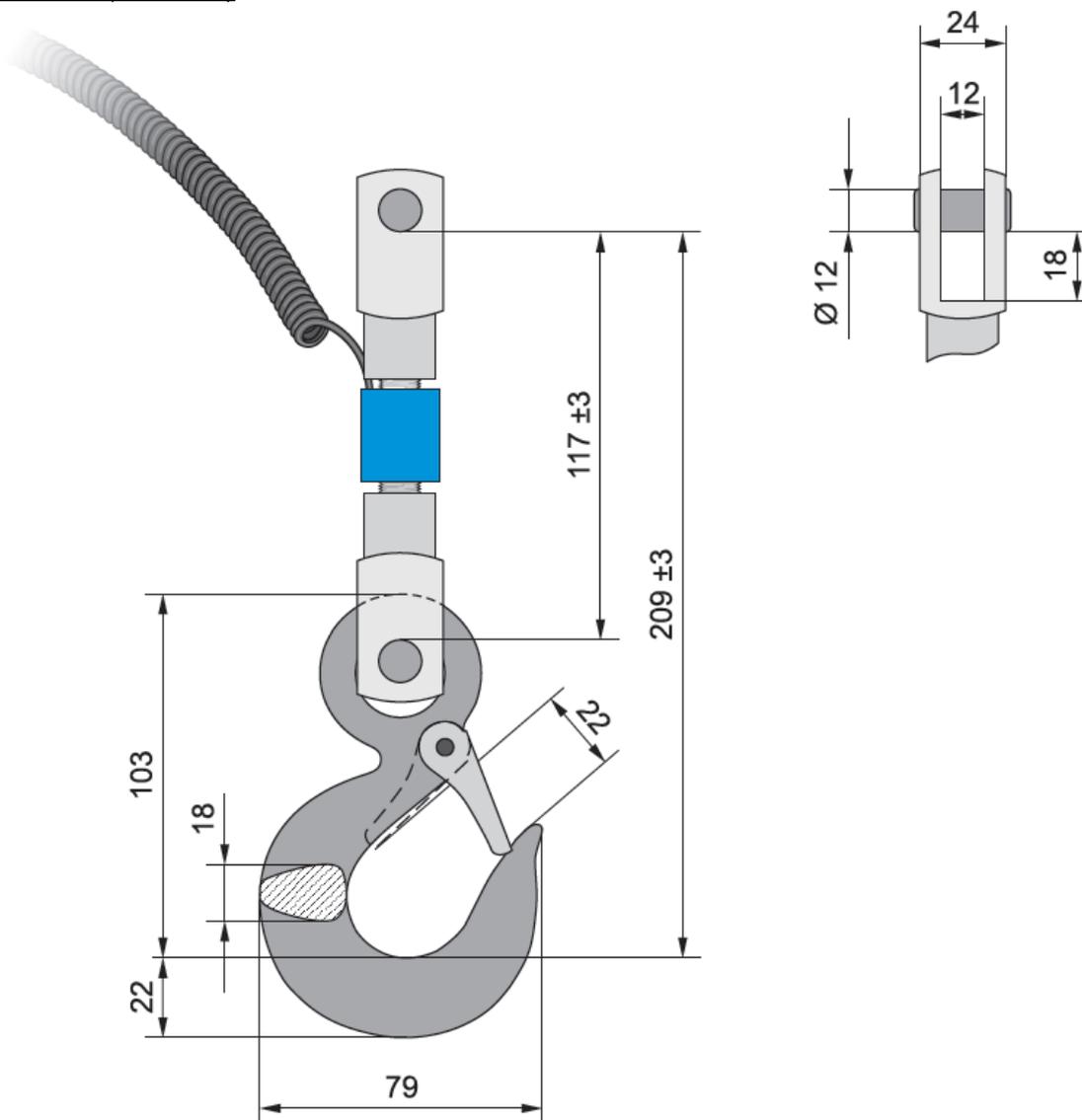
[Dimensions]

ZU series (Unit: mm)



Model	D1	L1	G	L2	L3	D2	D3	B
ZU-5000N	22	70	M12	130-138	162-170	φ12H7	φ30	16
ZU-10kN	28	105	M12	168-178	200-210	φ12H7	φ30	16
ZU-20N	35	105	M14	185-195	224-234	φ15H7	φ39	12

ZW1-10kN (Unit: mm)



[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.