

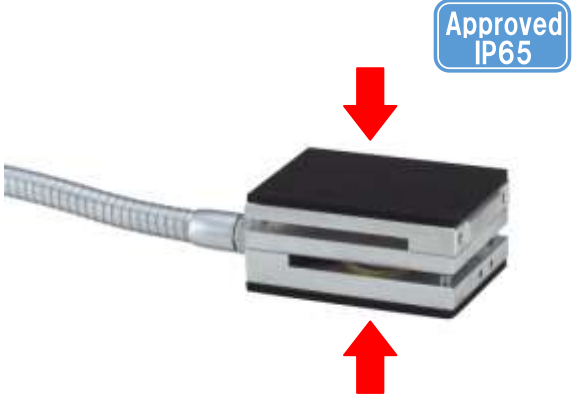
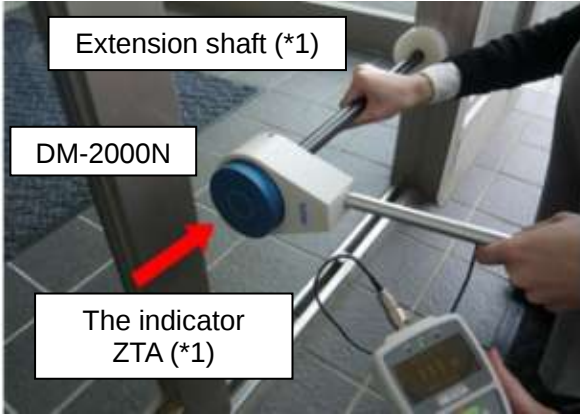
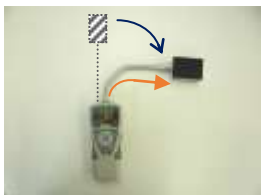
Load cell for automatic doors DM-2000N

Load cell for doors and windows SKM-1000N

Measuring closing force for doors or windows.

Measurements are possible by putting the sensor between samples.

The measurement in accordance with JIS is partly approved (DM-2000N).

	Load cell for automatic doors:DM-2000N	Load cell for doors & windows:SKM-1000N
P h o t o		
U s i n g i m a g e s	 Measurements in accordance with Japanese Industrial Standard (JIS) is partly approved.	Measurements by putting between samples  The flexible arm can fix the sensor direction.   Easy fixing for direction and position with the flexible arm. Handy measurements are possible.

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

*1Combination of an indicator and extension shafts is also available. Please refer to the Page 3.

[Approved standard (DM-2000N)]

DM-2000N is partly approved JIS standards below.

Standard number (Corresponding year)	Standard title
JIS A4721(2005)	Automatic revolving door—Safety
JIS A1551(1995)	Test method for automatic door system

[Load cell specification]

Model	DM-2000N	SKM-1000N*
Capacity	2000N	1000N
Rated output	0.75~2mV/V (1500~4000×10 ⁻⁶ distortion)±1%	—
Nonlinearity	1.0%R.O.	—
Hysteresis	1.0%R.O.	—
Recommended voltage (Allowable voltage)	1~5V AC or DC (7V AC or DC)	— (—)
Allowable	150%	—
Compensation temperature (Allowable temperature)	0 degree Celsius~ +50 degree Celsius (-10 degree Celsius~ +60 degree Celsius)	0 degree Celsius~ +40 degree Celsius (0 degree Celsius~ +40 degree Celsius)
Temperature influence for 0 point	0.05%/ degree Celsius	—
Temperature influence for output	0.05%/ degree Celsius	—
Weight	Approx. 1200g (The weight is only sensor)	—
Cable	Approx.2m	Approx.200mm(Flexible arm)
Dimension	Refer to dimensions	Refer to dimensions
International Protection	—	IP65

*The feature of the load cell sensor on the specification due to the load cell does not separate from an indicator. Besides, refer to [Model lists connecting ZT series] on the Next page for accuracies

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

Recommended indicator: ZT Series

Separate sensor model digital force gauge



IMADA
Sensor

Separate sensor model
digital force gauge
ZT series

Combining with ZT series helps your needs such as...

- [Comfortable reading for measurement value](#)
→Measurement value is possible to check comfortably 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 series of 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 output functions for operating external devices](#)
→These functions expand the possibility of usage with external devices.

Desktop force amplifier FA Plus



Desktop model is also
available.

[Model lists connecting ZT series]

Model		Range	Accuracy(*1)	Display	Resolution
ZTA-DM-2000N	ZTS-DM-2000N	2000N	±2.0%F.S. or less	2000N(2.000kN)	1N(0.001kN)
ZTA-SKM-1000N	ZTS-SKM-1000N	1000N	±1.0%F.S. or less	1000N(1.000kN)	1N(0.001kN)

* Please refer to each specification for the detail of ZT series/ software Force recorder/ FA Plus.

*1The accuracy is only available for combinations with our indicator.

[DM Model lists]

Model	Detail
DM-2000N	Only load cell
ZTA-DM-2000N or ZTS-DM-2000N	Combination model of a load cell and an indicator (ZTA or ZTS)
DM-ETM-200	Extension shaft (Length 200mm)
DM-ETM-300	Extension shaft (Length 300mm)
DM-ETM-500	Extension shaft(Length 500mm)
RDM-2000N	Combination model including all above products (A load cell and an Indicator ZTA is a pair)



Combination model	Contents
RDM-2000N	Load cell DM-2000N, Indicator ZTA, Extension shafts DM-ETM-200/300/500, Handle DM-ETM-001(*), Graphing software Force Recorder Standard, Data installing software ZT-Logger, USB cable, Adaptor for USB memory, AC adaptor, The case for the indicator

*The handle is to hold a middle part of an extension shaft and make easy to grip.

[Other load cell line-up]

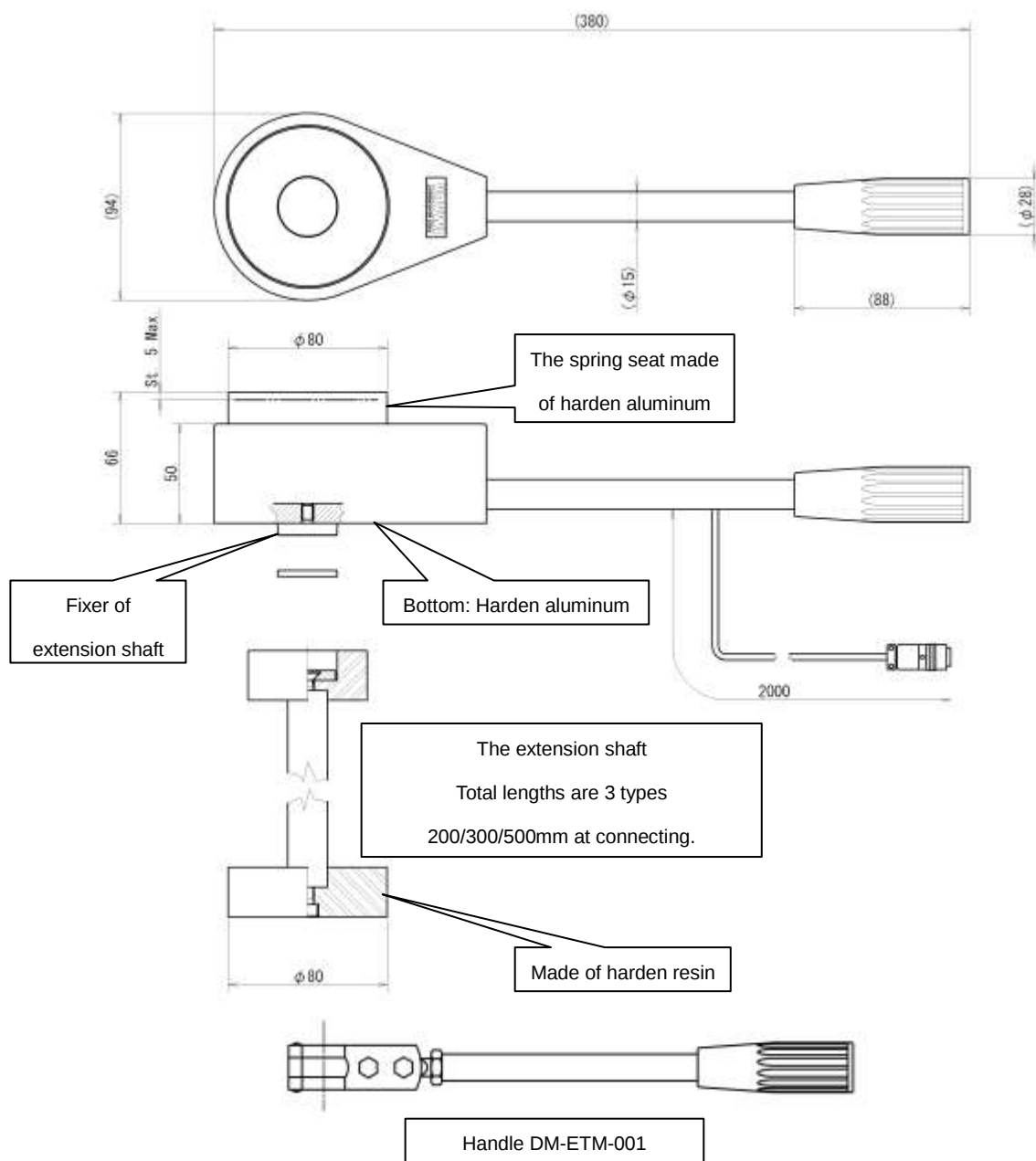
Varieties of load cells are available for your needs.

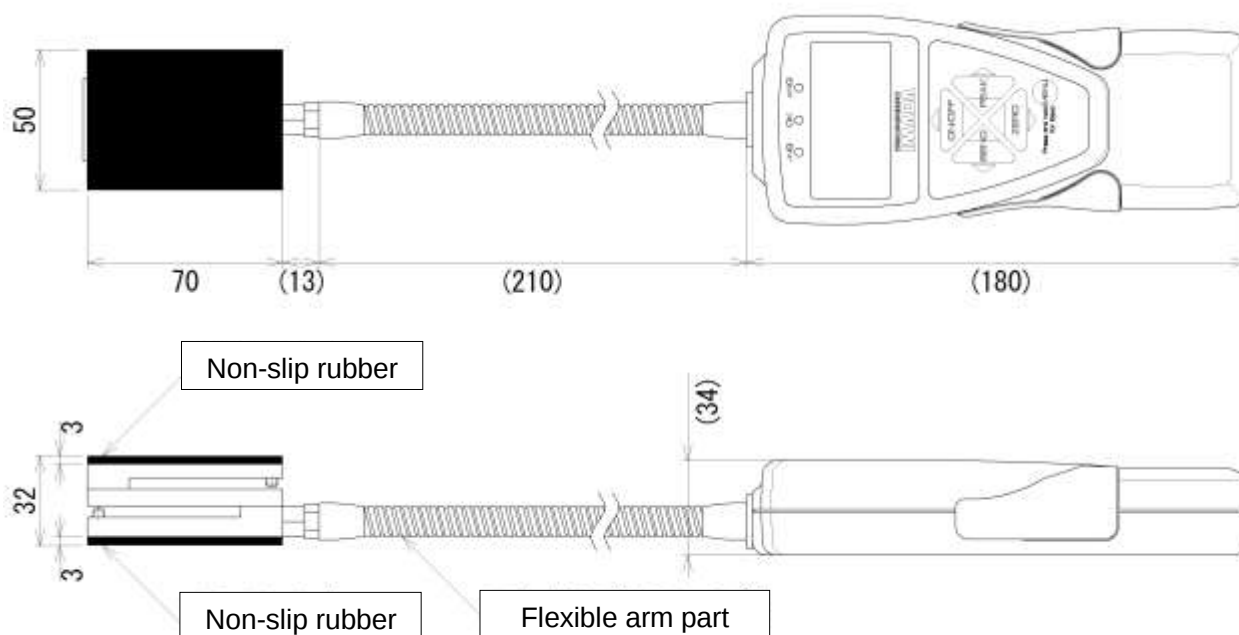
Standard type DPU series	Coin shaped type LM series	High accuracy coin shaped type LC series	Extra small type LMU series	Pen type PN-50N
				
High accuracy built-in type load cell for general use.	Coin size load cell for compression.	High accuracy coin shaped load cell for compression.	Sensor diameter is only 18mm	Ideal for testing manipulation or touching force for small items.

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

[Dimensions]

DM-2000N



SMK-1000N**[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 feel free to contact us \(+81-\(0\)-532-33-3288\) for your measurement.](tel:+81-0-532-33-3288)