

Size

Safe  
Overload  
Rating

# Ultra Compact

# Maximum 500%

\* 50N/100N/200N: 150%

Tension/Compression Load Cell

**Applications**Tension measurement,  
In-line load management**Mounting Method**

Two M3 female screws to mount

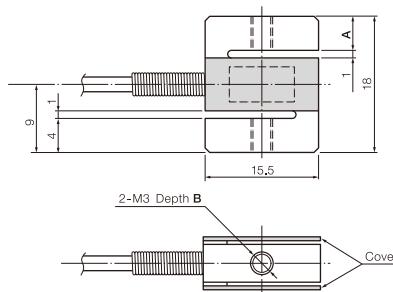
**Specifications**

Type	Tension / Compression Load Cell								
Model	<b>TU-MBR□□N-G</b>								
	RoHS (10 substances)								
Rated Capacity (R.C.)	<b>2N</b>	<b>5N</b>	<b>10N</b>	<b>20N</b>	<b>50N</b>	<b>100N</b>	<b>200N</b>		
Natural Frequency	(Please contact us for more details.)								
Weight (Approx.)	5g								
Safe overload rating	500% R.C.		150% R.C.						
Rated Output (R.O.)	Approx. 0.4mV/V		Approx. 1mV/V						
Linearity	0.1% R.O.								
Hysteresis	0.1% R.O.								
Repeatability	0.1% R.O.								
Zero Balance	±20% R.O.								
Safe Excitation Voltage	AC. DC 5V								
Input Terminal Resistance	350Ω ±5%								
Output Terminal Resistance	350Ω ±5%								
Insulation Resistance	>1000MΩ (DC50V)								
Compensated Temperature Range	-10 to 60°C								
Permissible Temperature Range	-20 to 70°C								
Temperature Effect on Zero Balance	±1% R.O. / 10°C								
Temperature Effect on Output	±1%R.C. / 10°C								
Cable	Φ2, 4-core shielded, 3m direct connection robot cable with bare lead wires								
Mounting Method	Screw holes*								
Body Material	Aluminum								

\*Fixing bolts used for the 2xM3 should be 4.5mm or less in depth. If more than 4.5 mm is used, it may push up the sensing section of the unit and cause damage.

\*When installing the unit, make sure that no excessive force is applied to the base of the cable. Otherwise, this may cause measurement error or damage.

Dimensional drawings (Units: mm)



\* Fixing bolts used for the 2xM3 tap should be 4.5mm or less in depth

Capacity	A	B
2N, 5N, 10N, 20N	4	4.5
50N, 100N, 200N	3.5	3.5

# TEAC's strain gage products with compact, high accuracy and high stability.

## Related Products (Sensors)



Compression Load Cell

### TC-FR(T)-G6

**Compact, lightweight, and Stainless steel case**

500N to 20kN, Ø51mm



Compression Load Cell

### TC-USR(T)-G3

**Overload protection Design**

0.5N to 2kN, Ø17 to 34mm



Compression Load Cell

### TC-XR(T)-G6

**Center-hole type for Pressing and injection**

5kN to 300kN, Ø62 to 100mm



Tension/Compression Load Cell

### TU-QR(T)-G3

**Compatible with tension and compression application for test equipment**

50N to 2kN, Ø14 (M3 screw hole)



Low-profile load cell floor scale

### TL-PS etc.

**Simple structure by load cell**

0.6kg to 400kg/120mm to 500mm



Compression Load Cell

### TC-WLD(T)-G

**For spot welding pressure control**



Compression Load Cell

### TC-PF2(T)-G

**For automotive brake-pedal force measurement**



Pressure Transducer

### TP-AR(T)

**High-precision, corrosion resistance, high temperature type**

## Related Products (Indicators and Signal Conditioners)



92 x 92 mm  
Panel opening size

Color Graphics Digital Indicator

### TD-9000T

**NPN type** (Standard) **PNP type**

Standard model  
EtherNet/IP™ model  
CC-Link model

Standard model  
EtherNet/IP™ model  
CC-Link model

**High performance model with large LCD**

Supporting two inputs, force sensor and displacement sensor, various comparison judgments function, and direct saving of waveform data onto large capacity internal memory.



92 x 45 mm  
Panel opening size

Digital Indicator

### TD-700T

Standard model  
CC-Link model  
RS-485 model

**Excellent model with compact and high functionality**

Supporting five key functions in one unit, numeric display, graph display, TEDS function, static strain display, and signal conditioner. This small and cost-effective TD-700T achieves equal or even higher performance to upper-class models, with high-visibility color LCD and various hold functions.



Attaches to common DIN rails

Signal Conditioner

### TD-SC1

D/A model  
RS-485/Modbus RTU model  
CC-Link model  
EtherNet/IP™ model

**Slim and light-weight signal conditioner**

Supporting high-speed sampling of 20,000 times/second, PC-based configuration via USB connection, selectable network, and TEDS calibration function.



Weighs only 320g  
(incl. batteries)

Portable Digital Indicator

### TD-01 Portable

**On-site checking tool with versatility**

Supporting various functions that equal to embeded systems, in hand-held size, allowing you to take measurements anytime anywhere, according to your purpose.



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