

Size

Ultra Compact

Safe
Overload
Rating

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

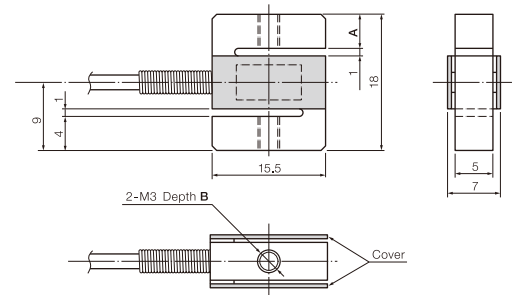
Type	Tension / Compression Load Cell						
Model	TU-MBR□□N-G						
	RoHS (10 substances)						
Rated Capacity (R.C.)	2N	5N	10N	20N	50N	100N	200N
Natural Frequency	(Please contact us for more details.)						
Weight (Approx.)	5g						
Safe overload rating	500% R.C.				150% R.C.		
Rated Output (R.O.)	Approx. 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℃						
Permissible Temperature Range	-20 to 70℃						
Temperature Effect on Zero Balance	±1% R.O. / 10℃						
Temperature Effect on Output	±1%R.C. / 10℃						
Cable	Φ2, 4-core shielded, 3m direct connection robot cable with bare lead wires						
Mounting Method	Screw holes*						
Body Material	Aluminum						

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

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

* 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.

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 appli-
cation 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 92mm
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.

TEDS	RoHS	4.3" LCD
Touch Panel	5,000 time/sec.	24-bit
Load/Vary Inputs	Waveform	Static Strain
Interrupt Check	High/Low Limit Compare	Judgements
D/A OUT	RS-232C	Bilingual

CE US CC-Link EtherNet/IP



92 x 45mm
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.

TEDS	RoHS	4,000 time/sec.	24-bit
Static Strain	Waveform	Bar Meter	D/A OUT
Data Rec	Various Holds	Bilingual	AC/DC Power

CE US CC-Link



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.

TEDS	RoHS	Plug-in
20,000 time/sec.	24-bit	Static Strain
Bilingual	High/Low Limit Compare	Hold Functions

CE US CC-Link EtherNet/IP



Weighs only 320g
(incl. batteries)

Portable Digital Indicator

TD-01 Portable

**On-site checking tool
with versatility**

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

TEDS	RoHS	Color LCD
Waveform	Bar Meter	High/Low Limit Compare
Data Rec	Static Strain	Interrupt Check
D/A OUT	Dual I/O	24-bit
AA Batteries	Long Time Operation	Bilingual

CE

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