

Tension/Compression Load Cell

TU-MBR**□**□N-G

Ultra Compact Maximum 500%

Tension/Compression Load Cell

Applications

Mounting Method

Tension measurement, In-line load management Two M3 female screws to mount

Specifications

Туре	Tension / Compression Load Cell					
Model	TU-ME	BR□□N-	G		RoHS (10 substances)	
Rated Capacity (R.C.)	2N	5N	10N	20N	Dimensional drawings (Units: mm)	
Natural Frequency	1.47kHz	2.45kHz	2.81kHz	2.92kHz		
Weight (Approx.)	5g					
Safe overload rating		500% R.C.				
Rated Output (R.O.)	Approx. 0.4mV/V					
Linearity	0.1% R.O.					
Hysterisis	0.1% R.O.					
Repeatability	0.1% R.O.					
Zero Balance	±20% R.O.					
Safe Excitation Voltage	5V					
Input Terminal Resistance	350Ω ±5%					
Output Terminal Resistance	350Ω ±5%				_w ³	
Insulation Resistance		>1000MQ (DC50V)			J. S.	
Compensated Temperature Range		-10 to 60°C			- Cover	
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				* Fixing bolts used for the 2xM3 tap should be 4.5mm or less in depth	
Cable	Φ2, 4-core shielded, 1m direct connection robot cable with bare lead wires			e 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.

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



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-USR(T)-G3 Overload protection Design** 0.5N to 2kN, Ø17 to 34mm

Compression Load Cell

TC-WLD(T)-G For spot welding pressure control

700.00 N



Compression Load Cell TC-XR(T)-G6

Center-hole type for Pressing and injection 5kN to 300kN, Ø62 to 100mm



TC-PF2(T)-G For automotive brake-pedal force measurement



Tension/Compression Load Cell **TU-QR(T)-G3**

Compatible with tension and compression application for test equipment 50N to 2kN, Ø14 (M3 screw hole)



Pressure Transducer **TP-AR** etc.

High-precision, corrosion resistance, high temperature type

Related Products (Indicators and Signal Conditioners)



Color Graphics Digital Indicator **TD-9000T** RS-485 model EtherNet/IPTM model

CC-Link model High performance 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

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
4			



Signal Conditioner

92 x 45mm

Panel opening size

D/A model RS-485 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			
CC-Link [*] EtherNet/IP ^{**}					
* Under planning					



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.



EtherNet/IP is a trademark of ODVA, Inc. Other company names, product names and logos in this document are the trademarks or registered trademarks of their respective holders.

TEAC CORPORATION

1-47 Ochiai, Tama-shi, Tokyo 206-8530, Japan E-mail: cs_ipd@teac.jp Web: https://loadcell.jp/en/ TEAC America, Inc., E-mail: datarecorder@teac.com TEAC EUROPE GmbH. E-mail: info@teac.eu TEAC SALES & TRADING (ShenZhen) CO., LTD. E-mail: teacservice3@teac.com.cn