TEAC

Features

Detachable Load Button

Body Material

Stainless Steel

Compression Load Cell

Load button attached

Load button
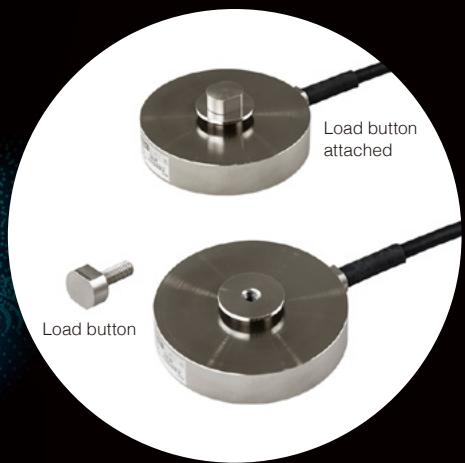
| **Advantages**	**Mounting Method**	**Durable Robot Cable standardized**	**Plug & Play with built-in TEDS**
Easy to install to the existing equipment	M4 screws to mount (Depth＝4mm)	Enhanced durability against bending that occurs in moving parts with frequent repetitive motion, such as industrial robots and machine tools. High stability and reliability are realized.	With the TD series indicators, equivalent input calibration, likely to forget in manual setting, can be performed automatically and help prevetion. (See the reverse page for detail on TEDS)

Specifications

Type	Compression Load Cell				
Model	**TC-LPR(T)□□N/KN-G6** **TEDS** (Embeded in the body) **RoHS** (10 substances)				
Rated Capacity (R.C.)	**500N**	**1kN**	**3kN**	**5kN**	**10kN**
Natural Frequency	2.5kHz	3.8kHz	7.3kHz	(T.B.A.)	(T.B.A.)
Weight (Approx.)	250g	250g	250g	(T.B.A.)	(T.B.A.)
Safe overload rating	120 % R.C.			150 % R.C.	
Rated Output (R.O.)	1mV/V ±10%				
Linearity	0.1% R.O.			0.3% R.O.	
Hysterisis	0.1% R.O.			0.3% R.O.	
Repeatability	0.05% R.O.				
Safe Excitation Voltage	15V			12V	
Input Terminal Resistance	382±10Ω				
Output Terminal Resistance	350±3.5Ω				
Insulation Resistance	1000MΩ or more (DC 50V)				
Compensated Temperature Range	−10 to 70°C				
Permissible Temperature Range	−30 to 80°C				
Temperature Effect on Zero Balance	0.1% R.O. / 10°C				
Temperature Effect on Output	0.1% R.C. / 10°C				
Cable	Φ6, 6-core shielded, 5m direct connection robot cable with bare lead wires				
Mounting Method	Screw holes				
Body Material	Stainless Steel				
Accessory	Load button				

Dimensional drawings (Units: mm)
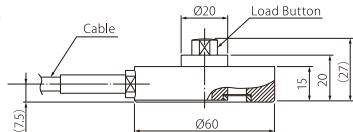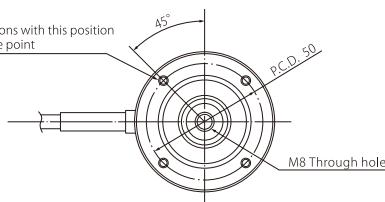
TC-LPR(T)□□500N to 3KN-G6

Cable — Ø20 Load Button — 15, 20, (27) — (7.5) — Ø60
4 x M4 S8, L12
Equal 90° divisions with this position as the reference point — 45° — P.C.D. 50 — M8 Through hole

TC-LPR(T)□□5KN to 10KN-G6

Cable — Ø24 Load Button — 15, 20, (27) — (1) — (Ø44) — Ø70
4 x M4 S8, L12
Equal 90° divisions with this position as the reference point — 45° — P.C.D. 54 — M6 Through hole

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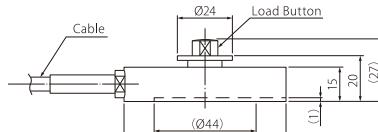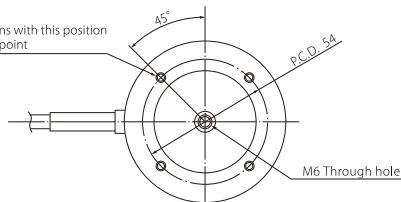
Advantages of the TEAC Load Cells

TEAC Load Cells

Since the 1980s, when TEAC started manufacturing and selling load cells, we have cultivated technologies to achieve higher precision and smaller size with our unique structures. With these technologies, a number of load cells that achieve high response, high accuracy, and high stability, as well as products that take environmental conservation into consideration have been developed to match customers' applications.

We also offer customization for specific conditions (usage environment, space) that are difficult to meet with standard ones. From one-off prototypes to mass production, we support engineers involved in research and development on manufacturing technology.

Examples of appplication

| Pressuer of mounters	Tension of wire saw	Dicing wafers	Polishing wafers
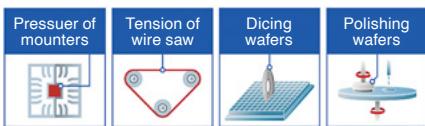
Robot Cable standardized

Robot cables provide enhanced durability and stable performance against bending that occurs in moving parts with frequent repetitive motion, such as industrial robots and machine tools.

Every TEAC's ultra-compact load cells employ robot cables, together with the TEDS function, contribute to factory automation and labor savings.

* Customized proposals that match your application and environment are available. Please contact our sales representatives for detail.

As shown above, fix the core wire so that it does not move, bend it 90 degrees to the left or right, and confirm that no wire breakage occurs.

TEDS-compatible

The TEDS (Transducer Electronic Data Sheet) system is a generic term for a description format standardized by IEEE that electronically reads and writes sensor's specific characteristic, which is recorded in an EEPROM built into the sensor and can be read and written electronically.

Model name, serial number, sensitivity (output value against physical quantity) and other calibration factors are digitized and recorded in the memory built into the load cell body. Sensor's specific values can be set electronically, automating the reading of recorded information and equivalent input calibration, eliminating human error in setting and reducing the burden of load cell replacement.

Load Cell Embedded Equipment — TEDS-compatible digital indicators
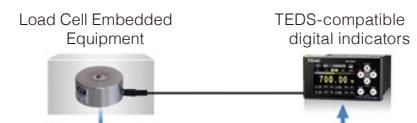
Sending individual specific values of each load cell indicated in the unit's Data Sheet

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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	Standard model
EtherNet/IP™ model	EtherNet/IP™ model
CC-Link 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 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.

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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