

KEXYLUIUU)

Compression Load Cell

TC-MFSR(T)

Surface contact Flat type Berylium copper



Compression Load Cell

Applications

Mounting Method

Ideal for pressurizing force control of bonding machines.

Bonding, Housing

Durable Robot Cable standardized

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.

Plug & Play with built-in TEDS

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

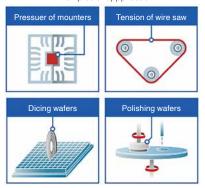
Туре	Compression Load Cell		
Model	TC-MFSR(T)□□N-G		TEDS (Embeded in the body) RoHS (10 substance)
Rated Capacity (R.C.)	20N	50N	Dimensional drawings (Units: mm)
Natural Frequency	23kHz	23kHz	
Weight (Approx.)	2g	2g	
Safe overload rating	120 % R.C.		
Rated Output (R.O.)	1mV/V		
Linearity	0.5% R.O.		
Hysterisis	0.5% R.O.		
Repeatability	0.3% R.O.		ST Cable ST Cable ST Cable
Zero Balance	±10% R.O.		
Safe Excitation Voltage	6V		
Input Terminal Resistance	350Ω ±20Ω		
Output Terminal Resistance	350Ω ±20Ω		
Insulation Resistance	1000MΩ or more (DC50V)		
Compensated Temperature Range	0 to 60°C		
Permissible Temperature Range	–10 to 80°C		
Temperature Effect on Zero Balance	2% R.O. / 10°C		
Temperature Effect on Output	1% R.C. / 10°C		
Cable	Φ2, 6-core shielded, 3m direct connection robot cable with bare lead wires		
Mounting Method	Bonding, Housing		
Body Material	Beryl	ium copper	

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



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.



Sending individual specific values of each load cell indicated in the unit's Data Sheet

TEAC has been strongly promoting TEDS (IEEE 1451.4 Transducer Electronic Data Sheet) compliance for load cells and load cell indicators.We are the first Japanese manufacturer that obtained a "Manufacturer ID", making our load cells and indicators TEDS-compatible.

Related Products (Indicators and Signal Conditioners)



Color Graphics Digital Indicator **TD-9000T**

RS-485 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

TEAC Protection of the second second

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



Signal Conditioner

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				
c¶Nus C€ ĽK						
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.



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