

Compression Load Cell

TC-NSRSP(T) IN-G3

Sputter-gage Type Stainless Steel

Compression Load Cell

Linearity 0.2%

Achieving precise linearity as high as 0.2% in a compact size.

Screw Mount

Two M2 tap holes on the bottom for screw mounting.

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	Copression Load Cell					
Model	TC-NSRSP	TEDS (Embeded in the body) RoHS (10 substances)				
	Unit	Natural Frequency	Weight (Approx.)			
	50N	41.8kHz	17g	Dimensional drawings (Units: mm)		
Rated Capacity (R.C.)	100N	60.9kHz	17g	-		
	200N	83.3kHz	17g			
	500N	116.9kHz	17g			
Safe overload rating	150 % R.C.					
Rated Output (R.O.)	1.3mV/V ±30%					
Linearity	0.2% R.O.					
Hysterisis	0.2% R.O.					
Repeatability	0.2% R.O.			Rubber Sleeve		
Safe Excitation Voltage	5V					
Input Terminal Resistance	1150Ω ±30%					
Output Terminal Resistance	1150Ω ±30%					
Insulation Resistance	1000 MΩ or more (DC 50 V)			Ø20 (15)		
Compensated Temperature Range	0°C to 60°C					
Permissible Temperature Range	-20 to 70°C					
Temperature Effect on Zero Balance	0.3% R.O. / 10°C			Cable ±5° withdrawal angle tolerance		
Temperature Effect on Output	0.3% R.C. / 10°C					
Cable	Φ3, 6-core shielded, 3m direct connection robot cable with bare lead wires			2 xM2 depth 3		
Mounting Method	Screw holes					
Body Material	Stainless Steel					

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.

92 x 45 mm

Panel opening size

24-bit

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

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Excellent model with compact

Supporting five key functions in one unit,

static strain display, and signal conditioner.

This small and cost-effective TD-700T

LCD and various hold functions.

numeric display, graph display, TEDS function,

achieves equal or even higher performance to

upper-class models, with high-visibility color

Static Strain Waveform Bar Meter D/A OUT

Data Rec Various Bilingual AC/DC Power

and high functionality

Digital Indicator

TD-700T

Standard model

CC-Link model

RS-485 model



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				
с ЯЛ us СЕЦК						
CC-Link [*] EtherNet/IP ^{**}						
* Under planning						

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.



https://loadcell.jp/en/products/loadcell/tc-nsrsp.html

