

Features

 Body
Material

Compact & Universal

Stainless Steel

Compression Load Cell (TC-FR) / Tension Load Cell (TT-FR)



Benefit

Easy to install on the existing facilities/systems.

Vacuum compatible

Works in vacuum state.
(TC-FR custom design model)

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

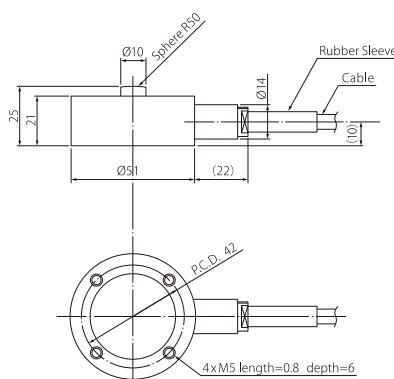
With the TD series indicators, equivalent input calibration, likely to forget in manual setting, can be performed automatically and help prevention.
(See the reverse page for detail on TEDS)

Specifications

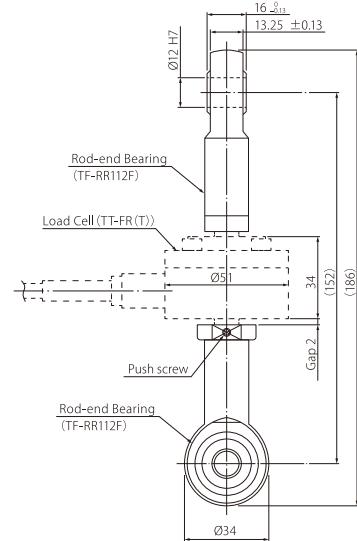
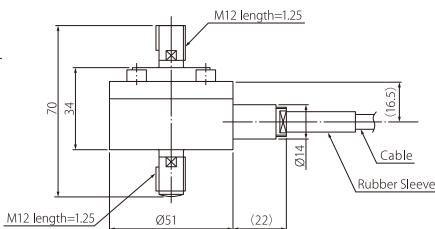
Type	Compression Load Cell						Tension Load Cell									
Model	TC-FR(T)□□N/KN-G6						TT-FR(T)□□N/KN-G6									
Rated Capacity (R.C.)	500N	1kN	2kN	5kN	10kN	20kN	500N	1kN	2kN	5kN	10kN					
Natural Frequency	3.6kHz	5.0kHz	6.0kHz	7.0kHz	10.0kHz	TBA*	3.6kHz	5kHz	6kHz	7kHz	10kHz					
Weight	230g	230g	230g	230g	230g	230g	0.24kg	0.24kg	0.24kg	0.24kg	0.24kg					
Safe overload rating	150% R.C.						150% R.C.									
Rated Output (R.O.)	2mV/V ±1%						2mV/V ±0.5%									
Linearity	0.15% R.O.	0.1% R.O.					0.15% R.O.									
Hysteresis	0.1% R.O.						0.1% R.O.									
Repeatability	0.05% R.O.						0.05% R.O.									
Safe Excitation Voltage	15V						15V									
Input Terminal Resistance	425 ±50Ω						425 ±50Ω									
Output Terminal Resistance	350 ±5Ω						350 ±5Ω									
Insulation Resistance	1000MΩ (DC 50V)						1000MΩ (DC 50V)									
Compensated Temperature Range	-10°C to 70°C						-10°C to 70°C									
Permissible Temperature Range	-10°C to 70°C						-10°C to 70°C									
Temperature Effect on Zero Balance	0.05% R.O. / 10°C						0.05% R.O. / 10°C									
Temperature Effect on Output	0.1% R.C. / 10°C						0.05% R.C. / 10°C									
Cable	Φ6, 6-core shielded, 5m direct connection robot cable with bare lead wires						Φ6, 6-core shielded, 5m direct connection robot cable with bare lead wires									
Mounting Method	Screw hole, Base Plate						Male screw (M12)									
Body Material	Stainless Steel						Stainless Steel									

Dimensional drawings (Units: mm)

TC-FR-(T)□□N/KN-G6

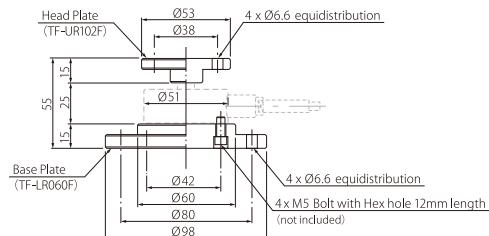


TT-FR-(T)□□N/KN-G6



Rod-end connection

Head Plate and Base Plate



Model No.	Head Plate (Weight)	Base Plate (Weight)	Bolt with Hex hole
TC-FR(T)-G6 500N			
TC-FR(T)-G6 1kN			
TC-FR(T)-G6 2kN	TF-UR102F (approx. 0.13kg)	TF-LR060F (approx. 0.6kg)	
TC-FR(T)-G6 5kN			
TC-FR(T)-G6 10kN			
TC-FR(T)-G6 20kN			M5 x 12

Related Products (Indicators and Signal Conditioners)



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.



EtherNet/IP™



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.



92 x 45 mm
Panel opening size



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.



CC-Link EtherNet/IP



Portable Digital Indicator
TD-01 Portable

Weights only 320g (incl. batteries)

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.



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

<https://loadcell.jp/en/products/loadcell/tc-fr-g6.html>
<https://loadcell.jp/en/products/loadcell/tt-fr-g6.html>

