Specifica	tions					
Input Signal Range		Strain gauge type transducer ±3.2mV/V				
Bridge Voltage		DC 10V or 2.5V ±10% (Max Current: 30mA, remote sense can be used)				
Calibration	Range	0.3 to 3.2mV/V				
	Accuracy	0.1%F.S. (Sensitivity 0.5mV/V or more)				
	Method	Actual load calibration, Equivalent load calibration, TEDS calibration				
	Zero Balancing Range	±2.0mV/V				
Accuracy	Non-linearity	0.01%F.S. + 1Digit (@ 1mV/V input)				
,	Zero drift	0.5μV/deg C (Input equivalent value)				
	Gain drift	±0.005% F.S./ deg C				
Analog to Digital Converting Rate		4000 times/sec, 20000 times/sec (when hold mode selected),				
		24 bits A/D converter				
D/A output		Voltage Output 0±1 to 10V 1V step or Current Output 4 to 20 mA 4000 Hz				
TEDS Function	on	IEEE1451.4 Class2 Mix mode interface				
Display	Display Unit	2.4 inch. TFT color LCD				
,	Display Range	-99999 to 99999				
	Display Times	Select 4, 6, 10, 20 times/sec				
	Display Mode	Select Normal, Bar meter, Large Indicator Value, Static Strain, Graph				
	Resolutions	1/99999				
	Language	Japanese / English				
Hold function	(20000 times/ sec)	Sample, Peak, Bottom, Peak to Peak, Peak and Bottom, Average				
riola function	(20000 times/ sec)	*Zone Definition Available except Sample Hold				
Comparison	4 signals	High-High Limit(HH), High Limit(HI), Low Limit(LO), Low-Low Limit(LL)				
Comparison function	Range	-99999 to 99999				
Turiction	Mode					
	Compare Speed	Select Always, Stable, Hold, No Compare				
Digital Filter	Compare Speed	4000 times / second				
Digital Filter		Low Pass Filter / Select 3(-6db/oct), 10, 30, 100, 300, 1000 Hz (-12db/oct), None Moving Average (16/32/64/128/256/512/1024/2048)				
Digital Zero	Digital Zero	Set to Zero on specified point				
Digital Zero						
Other Function	Zero Tracking	Suppressing to Zero by specifying time duration and level range				
Other Function	DIIS	HH, LL enable/disable, Set near Zero, Motion Detect, Digital Offset,				
		Minimum Scale, Calibration Value Lock, Setting Lock, Static Strain Mode,				
		Comp. Output Control, Comp. Output Pattern, Key Lock, Hysteresis,				
0 1 11/0	1	Select Data Output, D/A Converter, Remote Sense				
Control I/O	Input Signal	Hold, Digital Zero, Judge, Clear, setting memory selection 1 or 2				
(isolated from main unit	Signal Type	Contact or Open Collector				
circuits using a	Output Signal	S1(HH), S2(HI), S3(LO), S4(LL), OK(OK)				
photo coupler)	Signal Type	Open Collector Output				
Power		AC100V 12W AC adapter (Included as a standard accessory)				
Environment	Operating Temp.	0 to 40 deg C				
	Storage Temp.	-20 to 60 deg C				
	Operating Humidity	85%RH (No condensation)				
Dimension (WxHxD)		96W x 52.5H x 131.7D [mm] (without protrusions)				
Weight		About 300 g				
Applicable	Safety	CE marking, UL61010-1				
Standard EMC VCCI(Class A), EN61326 (Class A),		VCCI(Class A), EN61326 (Class A),				
Manual		Japanese, English, Chinese				
		(These can be downloaded from http://loadcell.jp/en/)				

- Panel attachment fixtures
- Micro screw driver (flat-blade) 1 pc. (already attached to unit) 2 pcs. Operation manual(A5) 1 pc.
- DIN rail attachment adapter 1 pc.
 AC adapter 1 pc.
- Input and output connector plugs B2L 3.50/08/180F SN BK BX 1 pc. B2L 3.50/16/180F SN BK BX 1 pc.



Several options are available

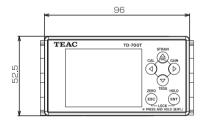
- TD-700T case CS-701 (For One Input) CS-703 (For Three Input)
- CC-Link Interface TD-700T (CCL) ■ RS-485 Interface TD-700T(485)
- * For details, please contact TEAC sales or distributors

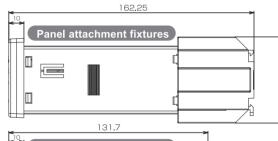


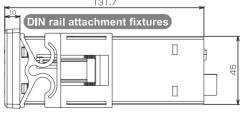
Rear panel of case (One input)

PIN	ASSIGN	PIN	ASSIGN	PIN	ASSIGN
1	TEDS	9	V-OUT	17	SEL2
2	GND	10	I-OUT	18	COM
3	+EXC	11	COM	19	LL
4	-SIG	12	CLEAR	20	LO
5	-EXC	13	JUDGE	21	HH
6	+SIG	14	HOLD	22	HI
7	SHIELD	15	D/Z	23	OK
8	NC	16	SEL1	24	COM

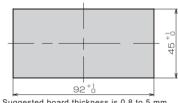
External Drawing



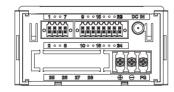




Panel cutout dimensions



Suggested board thickness is 0.8 to 5 mm.



http://loadcell.jp/en/

TEAC CORPORATION

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TEAC

Digital Indicator for Force / Pressure / Torque Inputs

TD-700T

Optionally supports interfaces for easy connection with production lines and other systems;















High-performance in compact design Excellent cost performance High speed processing at 4000 times / sec (20,000 times / sec at hold)

























http://loadcell.jp/en/



TEAC's TD-700T was developed to measure and display load, pressure, and torque measurements accurately and graphically. The TD-700T brings features to a 1/8 DIN size indicator that are normally found in larger HMI displays.



Feature

High-performance color graphic LCD screen

Vivid display gives immediate process status. Each alarm intuitively and independently advises process condition.

Plug-and-Play (TEDS)

The TD-700T Supports IEEE 1451.4 TEDS. By utilizing TEAC load cells, auto-calibration is performed which eliminates complicated calibration and prevent human error.

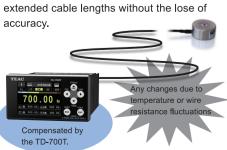


TEDS information can be confirmed

TEAC has various TEDS load cells for Plug-and-Play operation ▼ For more information http://loadcell.jp/en/

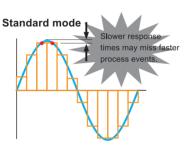
Remote Sense Function

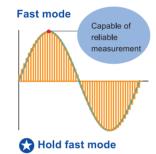
Compensates for possible voltage changes due to temperature fluctuations and/or



4000 times / second (20000 times / sec at hold) high-speed processing

Sampling and response times of 4000 per second. You can realize higher measurement accuracy and reliability with faster sampling of 20,000 cycles/s in Fast mode.





Zero Position Bar Graph Settings

Zero position for the bar graph can be set automatically depending upon the application.

Positive & negative value sample hold

TD-700T can sample, hold and average both positive and negative values. It can be used in measurements using dual pole devices such as torque sensors.

Comparison function

It is possible to set up to 4 values (HHI, HI,LO and LLO) to compare with the input signal. The definition of those values is programmable (i.e. 3 upper limits and 1 lower limit). This provides users with a wide variety of alarm applications, and helps avoid confusion and/or problems monitoring your process.

Static strain display

Allows the measure static strain. This function makes it easier to check load-cells for deterioration and plastic deformation.

User friendly warnings

TD-700T detects overloading, wrong connection, invalid parameters and improper adjustments and show warnings on the front LCD.



Analog voltage /current output (isolated)

TD-700T can also be used as a signal conditioner.

4 patterns of memory function

Settings for up to 4 holding modes can be saved. You can switch among those saved.

Examples of information on the display

Visual Alarm Modes



Static strain



Bar Graph



Numbers only



Actual Process Waveform



■ The fast 4Ks/S sampling rate shows the process levels vividly and in real time. The TD-700T shows what happens before, during and after any event. A variety of display modes is available to meet your purpose.

Example of hold functions

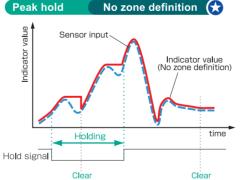
Variety of hold function with block setting

A variety of holding functions can be activated utilizing the front panel controls or external control signals.

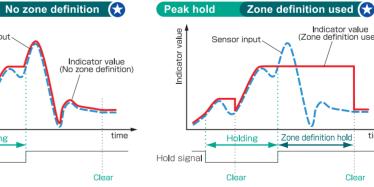
Fast sampling mode (20000 times/sec) supported

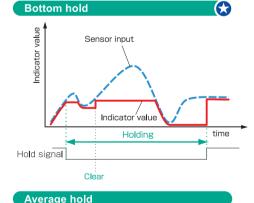
	- 1000
Hold functions	Zone definition
Sample hold	
Peak hold	0
Bottom hold	0
Peak-to-peak hold	0
Peak-and-bottom hold	0
Average hold	0

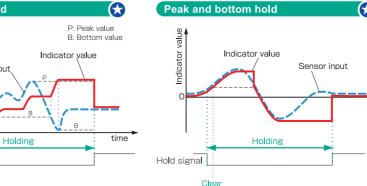
Sample hold Sensor input Indicator value Holding

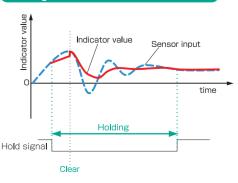


Hold signal









Peak to peak hold