Specifica	ations					
Bridge Voltag	ge	10V DC, 2.5 V ±10% (30mA current maximum, remote sense can be used)				
Signal input range		±3.2 mV/V				
Equivalent	Calibration range	0.3 mV/V-3.2 mV/V				
input/TEDS	Calibration precision	Within 0.1% F.S. (when using a 1m standard TEAC Φ8, 4-core shielded				
	· ·	cable with 350Ω impedance, 10V BV and 0.5mV/V or greater setting)				
Precision Nonlinearity		Within 0.01% F.S. + 1 digit (when input is 1 mV/V or greater)				
	Zero drift	Within 0.5 μV/°C (input conversion value)				
	Gain drift	Within ±0.005% F.S./°C				
A/D conversi	ion	24-bit, 4000 times per second, 20000 times per second (fast sampling mode				
Digital filter		Select 3 Hz (-6db/oct), 10, 30, 100, 300, 1000 Hz (-12 db/oct) or none				
D/A output		4000 times per second, isolated output, ±1–±10V voltage output (set in 1V				
		steps) and about 1/59000 resolution (when set to ±10V),				
		or 4–20mA current output and about 1/43000 resolution				
TEDS function		IEEE1451.4 class 2 mix mode interface				
Display	**	320 x 240 color liquid crystal				
Indicator	Display range	-99999 - 99999				
value	Decimal point	Display position selectable				
74.40	Times displayed	Select 4, 6, 10 or 20 times/second				
Displayed	Calibration settings	Zero calibration/span calibration				
items	oundration country	(TEDS calibration, actual load calibration, equivalent input calibration)				
NO.110	Function settings	High limit, low limit, high high limit, low low limit, comparison mode,				
	T dilottori octarigo	hysteresis, nearly zero, moving average, low pass filter, motion detect,				
		zero tracking, static strain, digital zero, digital zero offset, zone definition,				
		hold mode, key lock, minimum grid, display times, bridge voltage,				
		digital zero limit, clear digital zero, comp. output pattern,				
Hold function	<u> </u>	comparison output control, select data output, D/A converter, remote sense Sample hold, peak hold, bottom hold, peak to peak hold,				
HOIU IUIICIIOI	15					
		peak and bottom hold, average hold,				
External	Innut	zone definition hold (peak, bottom, peak to peak, peak and bottom, average)				
	Input	Hold, judge, clear, digital zero, setting memory selection 1, setting memory				
input and	Outmut	selection 2 (isolated from main unit circuits using a photocoupler)				
output	Output	HH, HI, OK, LO, LL open collector output (isolated from main unit circuits				
signals	001:14	using a photocoupler)				
	CC-Link*	DA, DB (isolated from main unit circuits using a photocoupler), DG, SLD				
_	RS-485**	A+, B- (isolated from main unit circuits using a photocoupler), TRM, FG				
Power	DC power supply	Ratings: DC 12–24 V, 9 W				
supply specifications		000 4000				
Operating temperature range		0°C – 40°C				
Storage temperature range		-20°C - 60°C				
Operating humidity range		85% RH or less (without condensation)				
Applicable standards		CE marking EN61326 (class A), UL61010-1				
External dimensions (W × H × D)		Approximately 96 mm × 53 mm × 132 mm (without protrusions)				
Weight		About 300 g				

*Only with CC-I ink ontion

ncluded accessories

- Panel attachment fixtures (already attached to unit) 2 pcs.
- DIN rail attachment 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.
- Micro screw driver (flat-blade) 1 pc.





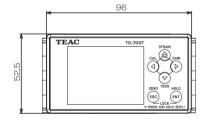
Several options are available

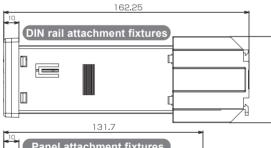
- CC-Link Interface TD-700T (CCL)
- RS-485 Interface TD-700T(485)
- * For details, please contact TEAC sales or distributors

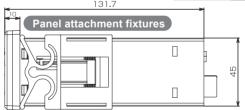
Pin Assianment

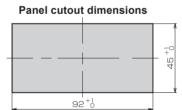
PIN	ASSIGN	P	N	ASSIGN	PIN	ASSIGN
1	TEDS	5	9	V-OUT	17	SEL2
2	GND	1	0	I-OUT	18	COM
3	+EXC	1	1	COM	19	LL
4	-SIG	1	2	CLEAR	20	LO
5	-EXC	1	3	JUDGE	21	HH
6	+SIG	1	4	HOLD	22	HI
7	SHIELD	1	5	D/Z	23	OK
8	NC	1	6	SEL1	24	COM

External Drawing









Suggested board thickness is 0.8 to 5 mm.

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http://loadcell.jp/en/

TEAC CORPORATION

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Features and specifications are subject to change without notice.

Precaution: To ensure safe handling and operation, read the Instruction Manual before use.

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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)





















TEAC TD-700T 700.00 HH 9999.99 **HI** 900.00 ОК LO 500.0 LL 400.00



http://loadcell.jp/en/

English manual and Chinese manual are available for download from TEAC Load-cell Products Web site

^{**}Only with RS-485 option.

[•] Weight and dimensions are approximate.



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



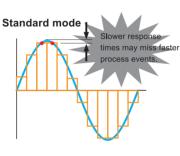
Remote Sense Function

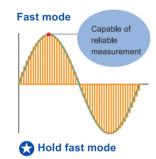
Compensates for possible voltage changes due to temperature fluctuations and/or



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.

Example of Warning Error Message FULL ensor may get overload static strain mode

Analog voltage /current output (isolated)

conditioner.

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

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			

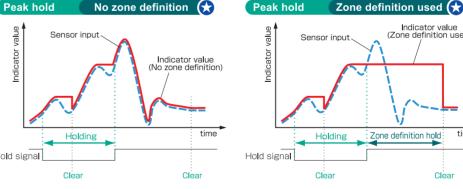
Sample hold Sensor input Indicator value Holding



Holding

Peak to peak hold

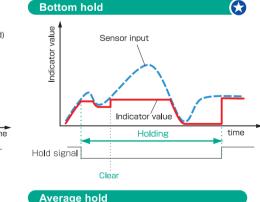
Hold signal

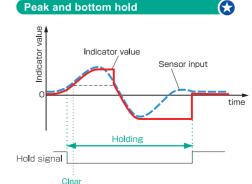


P: Peak value

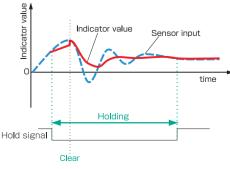
Indicator value

B: Bottom value









TD-700T can also be used as a signal

4 patterns of memory function