TD-9000T

24V DC (±10%) 13W,

/ About 960 g

FCC (class A)

-32000 to +32000

CE, UL

30000

external signal

and average value

16 (Work can be copied)

External input signal / manual

Same as A/D converting rate current output: about 1/43000

350Ω or less (Current output) /

2kΩ or more (Voltage output)

RS-232C (D-sub 9-pin), USB

Built-in memory (up to 70) or SD cards

Switchable)

Load: HH / HI / OK / LO / LL

Displacement: HI / OK / LO

AC100-240V (AC adapter is optional)

85% RH or less (without condensation)

4.3 inch LCD color resistive touch panel

Japanese / English / Chinese / Korean

sampling frequency is set to 5 kHz.

0°C to 40°C (Operating) / -20°C to 60°C (Storage)

Approx. 114 x 96 x 140 mm (protrusions not included)

Digital load value, Waveform, Archive data, Setting

80ms*/170ms*/400ms/800ms/2.0s/4.0s/10.0s/

30.0s/60.0s/120.0s *cannot be selected when the

2000/4000/6000/8000/10000/15000/20000/

Load (STD) / Load and displacement (biaxially)

Offset reference band / Designated value band

Up to 5 judgment zones can be set by device/

Constant comparison, sampling, peak, bottom,

peak to peak, maximum/minimum, inflection point

Sounding when judgments are not OK (ON / OFF

Isolated, Current (4-20mA), Voltage (-10V to +10V)

voltage output: about 1/59000 (when set to ±10V)

Differential pulse displacement sensor (A phase, B phase), Back light On/Off, Touch panel lock,

*Signals are input when shorted/opened between any

reset, work select, hold zone select, clear, judgment On/Off, Measurement Start/End,

Preset displacement, Digital zero

input terminal and the COM terminal.

Load judgment (HH/HI/OK/LO/LL),

Completed, Triager (1, 2),

Band judgment (HI, OK, LO)

*NPN open collector (Sync type)

detection), contact terminal check

Displacement judgment (HI/OK/LO),

Load cell error. Unit error. Measurement

Maximum Current: 20mA/Voltage: 30V

Load cell check (static strain/nterruption

Date (YYYY/MM/DD, etc.) / time can be set

SD/SDHC (2 to 32GB, Class 10 recommended)

TEAC



Touchscreen Waveform Judgments D/A OUT

High-speed sampling 25,000 times/sec

Compact body + easy-to-read large LCD

btto o //l o

Sensor inp	out			
Load sensor unp	out			
Bridge voltage		$2.5V/5V/10V\pm10\%$ (30mA current maximum, can be used with remote sensing)		
Signal input range		Strain gauge sensor –3.2mV/V to 3.2mV/V		
	Calibration range	0.1mV/V to 3.2mV/V		
Calibration	Calibration method	Equivalent Input / Actual Load / TEDS		
	Linearize function	Five-point tracking		
Precision	Linearity	Within 0.01% F.S. +1digit (when input is 3.2mV/V)		
	Zero drift	Within 0.5µV/°C (Input conversion value)		
	Gain drift	Within ±0.005% F.S/°C		
	Low pass	OFF/3/10/30/100/300/1000Hz (Digital filter, -6dB/oct)		
Filter	Moving average	0 / 2 to 2048 times		
	Auto digital	Only digital value display (constant judgment)		
A/D conversion	Sampling rate	5000 times per second, 25000 times per second		
	Resolution	24-bit (binary)		
TEDS function		IEEE1451.4 class 2 mix mode interface		

Displacement Sensor Input (pulse)

Specifications

Pulse type	A/B phase or A phase, differential square wave (RS-422 conformance)			
Maximum input freq.	2MHz			
Maximum count value	15,000,000			
Calibration method	Equivalent Input / Actual Load			
Moving average filter	0 / 2 to 2048 times			
Power supply for sensor driving	5V (±10%), 500mA Max.			

Displacement Sensor Input (voltage)

Displacement offision input (voltage)				
Input voltage range		±5.2V		
Calibration	Calibration range	0.1 to 5.2V		
	Calibration method	Equivalent Input / Actual Load		
Precision	Linearity	Within 0.01%F.S. ±1digit (Input ≥3.3V)		
	Zero drift	Within 0.005%F.S/°C		
	Gain drift	Within 0.02%F.S/°C		
Filter	Low pass	10 / 30 / 100 / 300Hz (-6dB/oct)		
	Moving average	0 / 2 to 2048 times		
A/D conversion Resolution		24-bit (binary)		
Power supply for sensor driving		DC 12V (±10%), 250mA Max.		

Included accessories

SENSOR connector plug 1

- CONTROL connector plug 1
- Plug case for CONTROL connector

Options

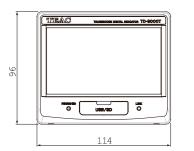
AC adapter PA-91

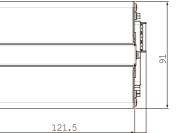
- (AC100 to 240V, compliant to the safety standards of Japan and North America)
- EtherNet/IP
- CC-Link

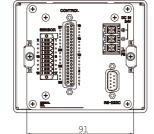
External drawings

E-mail: info@teac.eu

Web: https://teac.eu







Device settings

Temperature

Humidity

EMC

Safety

X-axis

Y-axis

Band judgment

Hold setting

Beep function

Switching

Resolution

Impedance

Input signal

Output signal

Output range Conversion rate

Number of works

Multi-zone judgment

Comparison judgment

Time

Displacement

Power supply

Environment

Applicable standards

Display

Language

Screen

Waveform

Comparison

Measurement work settings

Data recording

D/A converter

Control input/

output signal

(Photocoupler

Check functions

Recording media

Date and time setting

Insulation)

Communication interface

waveform

Display range

Dimensions/Weight



92 ⁺¹

Units: mn

TEAC CORPORATION E-mail: cs_ipd@teac.jp TEAC America Inc. E-mail: datarecorder@teac.com TEAC SALES & TRADING (ShenZhen) CO., LTD. E-mail: teacservice3@teac.com.cn

https://loadcell.jp/en



Color Graphics Digital Indicator

Standard Model
EtherNet/IP[™] Model
CC-Link Model

The TD-9000T is a digital indicator for load management that supports two inputs, load (load cell) and stroke (displacement gauge).

Equipped with a 4.3-inch touchscreen monitor with highspeed A/D conversion of 25,000 times/sec. It realizes not only the desired operation feeling but also visibility to be able to instantly grasp the situation.

Waveforms during measurement can be checked in real time. Widely usable from daily monitoring to verification of processing data.



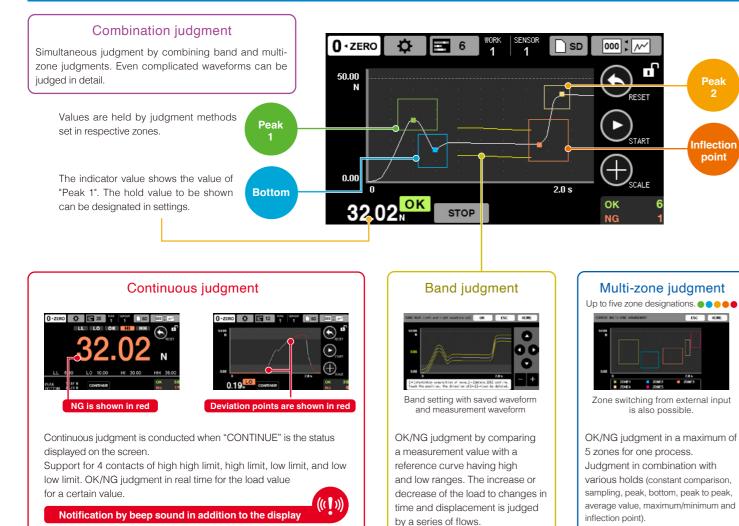


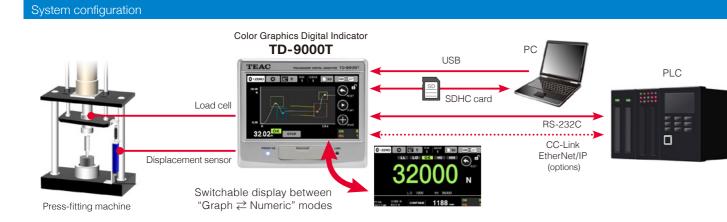
CARD AND





Waveform judgment in real time

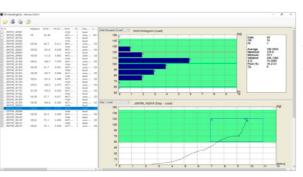




Software

Dedicated offline data viewer TD-View

TD-View is software that displays and statistically analyzes the data recorded on the SD/SDHC card on a personal computer. It shows its true ability in statistical process control. Displayable contents vary depending on hold mode and others. Not merely individual measurement data (Time-Load, Time-Displacement, Displacement-Load), but also trends and histograms of OK/NG judgment points for the entire list and statistically calculated values (Data, OK/NG Count, Average, Maximum, Minimum, Variance, S.D, Fluct., Cp) are displayed.



Recommended Operating Environment CPU: 2nd generation Intel[®] Core[™] i5, 30GHz or faster 0S. Windows 10 Memory: 4 GB or more

Free download from the Web



https://loadcell.ip/td-9000t

Features 1 High-speed processing 25000 times/sec 5 Intelligent calibration functions Realizing more reliable measurement without 5-1 TEDS function (Sensor Plug and Play) missing momentary changes. Realizing sensitivity automatic calibration by supporting TEDS. Contributing to reducing

2 Compact + Large touchscreen

A 4.3-inch wide touchscreen monitor is mounted

on a general-purpose 92x92mm panel mounting

4.3-inch touchscreen monitor

3 Displacement input is a standard feature

Supporting pulse input (A/B phase or A phase,

voltage input ±5.2V. Not just Time-Load but

differential square wave (RS-422 compliant)) and

also Displacement-Load management is

Judgment by both

load and displacement

4 Output functions

Voltage output: 0 to ±10V

• Current output: 4 to 20mA

4-1 Analog output

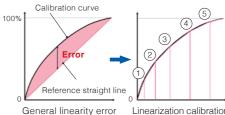
4-2 Digital output

hole size.

possible.



5-2 Linearization calibration function



By linearly interpolating between any five points, an output with little error close to the output characteristics can be obtained.

Not only measurement values, but also waveforms and judgment results are saved in the main unit memory. The saved data can be used for judgment settings of other measurements.

	~						
						SENS/1107	_
						01/01	ОK
67	L	Ma	r.19	15:5	2:37	01/01	
68	OK	Ma	r.19	15:5	2:46	01/01	OK
69		Ma	r.19	15:5	2:51	01/01	

6-2 Equipped with SD card drive

Measurement data, setting information, judgment results (OK/NG, judgment values) and others are saved in CSV format on the SD card, which can be verified with your spreadsheet software.



*One (1) data size approx. 30KB-60KB *Data is processed and recorded for 2240 dots on the

Options

• RS-232C

• USB

Communication options

A variety of fieldbuses are available as options to support various systems. EtherNet/IP

• CC-Link

depending on the full-scale value on the horizontal axis. However, the judgment method value is not a processing target. RS-232C and USB cannot be used at the same time. *To ensure stable recording, use an SD/SDHC card with a capacity of 2GB or more. Please refer to the instruction manual for details.



91mm

6 Data saving functions

6-1 Built-in memory saving (up to 70)

complicated procedures and management in calibration.

4K-bit products. Class 2 mixed-mode interface

Linearization calibration reduces errors.

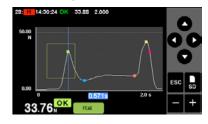


В	С	D
0		
2020/3/12		
18:27:09		
1		
1		

horizontal axis of the screen. The processing interval varies

7 Judgment result display function

The data you care about can be checked on the spot with the judgment result.



8 Load cell diagnostic functions

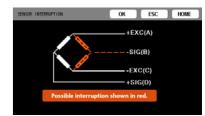
8-1 Static strain display

The function can investigate defects such as load cell deterioration and plastic deformation.



8-2 Disconnection detection

Also, the disconnection detection allows to check the location of the load cell disconnection.



9 Useful functions

9-1 EXT. TERMINAL check

Possible to check the control I/O signal status, which can be used for wiring checks and others.

9-2 Multilingual support

Languages can be switched among Japanese, English, Chinese, and Korean.

9-3 Screen BMP function

The contents displayed on the home screen can be saved and exported as a bitmap image.

9-4 Compliance of various regulations and standards

CE. UL. FCC (Class A)

9-5 Support for date and time settings

The date and time are recorded along with the measurement results

Power option

AC adapter • PA-91 (AC100 to 240V, compliant to the safety standards of Japan and North America)