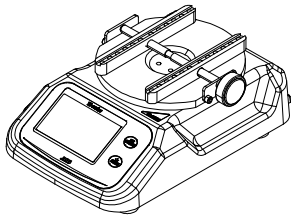
TD-H Series: Screwcap Torque Tester

Quick Start Guide

Applicable Models:
TD-0.5H
TD-2H
TD-5H
TD-10H



1WMPD4005960

A&D Company, Ltd.

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1. Introduction

Thank you for purchasing the A&D TD-H Series Screwcap Torque Tester. This Quick Start Guide explains the basic functions and operating procedures. For detailed functions and operating procedures of the TD-H Series, refer to the TD Series Instruction Manual. The manual is available for download from A&D website: https://link.aandd.jp/TorqueMeter_en.

2. Precautions for Use

Using this product in a manner not specified by A&D may impair the protection it provides.
Read the following precautions carefully before using this product.

⚠Warning

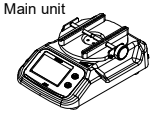
- This product is heavy; handle it with care.
- If you notice smoke, unusual odors, or abnormal sounds, a major fault or fire hazard may be present. Immediately stop using the product, turn off the power, unplug the AC adapter, and contact your local A&D dealer.
- Use only the supplied AC adapter and USB power cable.
- Operation is not guaranteed if commercially available AC adapters or USB power cables from other products are used.
- Do not touch the AC adapter with wet hands.
- Do not use a damaged USB power cable.
- Do not operate this product if liquids or foreign objects have entered it.
- Do not insert the power plug if dust or foreign matter is on the prongs.
- Insert the power plug fully to the base of the prongs.
- Do not install the product in locations where flammable liquids or combustible gases are present.
- Use this product with an AC 100 to 240 V power source.

⚠Caution

- Do not apply torque beyond the specified measurement range.
- If the sensor is damaged, applying excessive torque may damage internal components and may cause injury.
- Do not disassemble, repair, or modify this product under any circumstances.
- When unplugging the AC adapter, always hold the adapter body and do not pull the cable.
- Periodically unplug the AC adapter and clean the base of the prongs and the spaces between them.
- Use this product within the operating temperature range of 0 to 40°C.
- Use this product within the operating humidity range of 85% RH or less (non-condensing).

3. Package Contents

Main unit



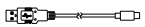
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AC adapter



USB power cable



Type C plug



Type G plug

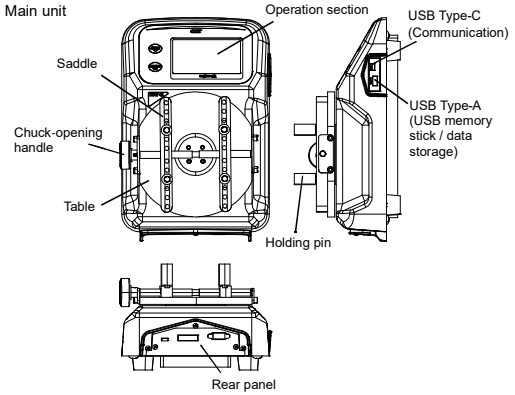


Holding pins

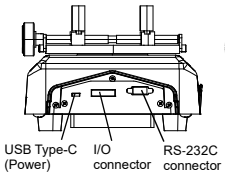


4. Names of Parts

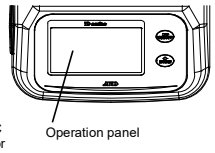
Main unit



Rear panel



Operation section

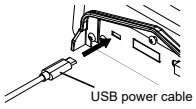


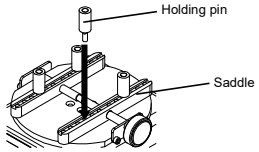
Operation key	Description
I/O ON/OFF	Turns the power on or off.
HOME	Moves to the HOME screen. Operates as a function key when function settings are configured.

⚠Caution
Always connect the USB power cable to the power USB port on the rear of this product.
If you connect the cable to the USB Type-C connector (for communication) on the side, this product may be damaged.

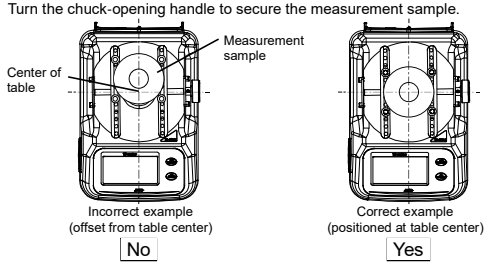
5. Installation

1. Connect the supplied USB power cable to the power USB port on the rear of this product, and then plug the AC adapter into an electrical outlet.
2. Press the [ON:OFF] key.
3. When starting this product for the first time, select the language to be used.
4. Place the measurement sample at the center of the table.
5. Insert the holding pins into positions that match the size and shape of the measurement sample.





6. Turn the chuck-opening handle to secure the measurement sample.



6. Measurement Methods

6.1. Peak Hold Mode

This mode detects the peak torque applied to the measurement sample.

1. Secure the measurement sample by following the steps in "5. Installation".
2. Select the measurement mode. (Default setting: Free Peak Hold)
   To use another mode, select Open Peak Hold or Close Peak Hold.
3. Set the Peak Detection Count. (Default: 1st)
4. Press the [RE-ZERO/RESET] button to perform zero adjustment.
5. Rotate the measurement sample in the direction specified for the selected measurement mode.
6. The peak torque applied to the measurement sample will be displayed.
7. Press the [MEM] button.
8. Press the [RE-ZERO/RESET] button to reset the peak.
9. Repeat steps 5 to 7 until the set Peak Detection Count is reached.
10. When the final peak value is reached, press the [MEM] button to display the measurement result.
11. Press either the [SAVE] button or the [DISCARD] button to complete the measurement.
    [SAVE] button: Saves the data and increments the MEMNo.
    [DISCARD] button: Discards the data.

6.2. Continuous Measurement Mode

This mode displays continuous torque data without performing peak hold.

1. Set the measurement mode to Continuous Measurement.

Note: For details on operation procedures and additional functions, scan the QR code and refer to the TD Series Instruction Manual available on A&D website: https://link.aandd.jp/TorqueMeter_en.

7. Specifications

Product model		TD-0.5H	TD-2H	TD-5H	TD-10H	Unit
Full scale (F.S.)		0.5	2	5	10	N·m
Measurement range		-0.5050 to 0.0000 0.0000 to 0.5050	-2.020 to 0.000 0.000 to 2.020	-5.050 to 0.000 0.000 to 5.050	-10.10 to 0.00 0.00 to 10.10	N·m
Display resolution		0.0001	0.001	0.001	0.01	N·m
		0.01	0.1	0.1	1	N·cm
Accuracy		±0.3				%F.S.
Supported workpiece (Chuck range)		φ10 to φ190				mm
Supported workpiece (Max. mass)		1 or less	7			kg
		Note: For the TD-0.5H, when the load exceeds 1 kg and is up to 5 kg, the accuracy is ±0.5% F.S.				
Mass		Approx. 6			Approx. 9	kg
Overload display		When the torque value exceeds 101% of the upper limit of the measurement range, "Over Torque!!" is shown on the LCD, and the buzzer sounds.				
Measurement modes		Peak Hold (Free / Open / Close), Continuous Measurement				
Memory	Number of memory entries	Up to 1000 entries can be stored, including the 1st, 2nd, and 3rd open peaks and the close peak.				
	Statistical processing	Average, maximum, minimum, standard deviation, defect rate				
Judgment function		Judgment is possible for the 1st, 2nd, and 3rd open peaks as well as the close peak.				
Clock function		Records date and time with torque data in internal memory				
Data output	USB Type-C	USB 2.0 or higher; communicates memory data, settings, and torque values				
	RS-232C	Prints memory data using an RS 232C compatible printer Recommended printer: AD-8129TH (A&D)				
	USB Type-A	Transfers memory data and setting files to a USB memory stick				
External output		Comparator upper limit output, comparator lower limit output, overload output				
Supported software		WinCT-TD PC software (data acquisition supported)				
Power supply		Main unit: DC 5 V / 1 A				
		Dedicated AC adapter (included): AC 100 to 240 V, 50 to 60 Hz				
Built-in battery		BR2032 coin type lithium battery				
Dimensions		216 mm (W) × 319 mm (D) × 150 mm (H) (height includes holding pins)				
Operating environment		Temperature: 0 to 40°C, Humidity: 85% RH or less (non condensing)				

8. Connecting to a PC

The WinCT-TD data communication software allows you to easily receive measurement data from the Screwcap Torque Tester on a PC and perform statistical processing, graph display, and editing of setting files. WinCT-TD is Windows-based software. For PC communication, use either the USB interface (Virtual COM mode) or the RS-232C interface.
To download WinCT-TD, visit A&D website at:
https://link.aandd.jp/TorqueMeter_en
or scan the QR code on this document.
For instructions on installing and setting up WinCT-TD, refer to the "WinCT-TD" section on A&D website.