

DTM-PA-SERIES

## TERMINAL TENSION TESTER OPERATION MANUAL



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DTM-PA-SERIES-E

V0

## System Brief Introduction

Suitable for terminal pull force testing, adapts to various wire harness terminal production and quality inspection scenarios, and is widely used in industries such as electronic manufacturing, automotive wire harnesses, communication equipment and home appliances

## I. Main Features

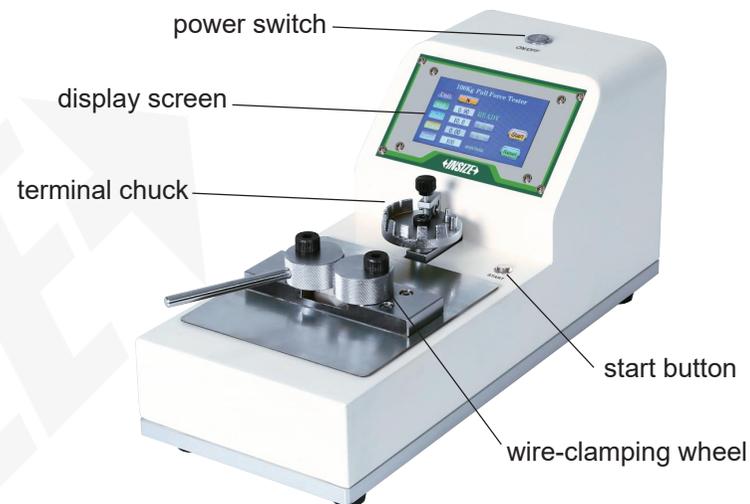
- One-click testing, automatic reset, flexible testing, reliable data
- Built-in 28 standard test programs and 16 modifiable programs
- The chuck is suitable for wires and terminals of various specifications, and can be customized for special requirements

## II. Specification

### SPECIFICATION

Code	DTM-PA500	DTM-PA1K	DTM-PA3K	DTM-PA10K
Max. test force	500N	1kN	3kN	10kN
Accuracy	±1%			
Unit	N, kgf, lbf			
Test method	retention method, pull-out method			
Speed	1~600mm/min		1~800mm/min	
Dimension (L×W×H)	430×180×210mm		480×260×290mm	710×490×295mm
Net weight	10kg		20kg	65kg
Power supply	AC 220V, 50Hz			

## III. Product Schematic



## IV. Unpacking Inspection

Carefully unpack each part, ensuring that the packaging remains intact for future transportation and storage. Check whether the standard configuration is complete, inspect each part for any damage during transportation, and if any possible damage is found upon internal and external inspection, immediately notify us of the damage and place the instrument in a reliable location.

## V. Pre-installation Precautions

- Temperature: The ambient temperature should be maintained between 15°C and 30°C, avoiding significant temperature differences and keeping away from heat sources  
Hot object.
- Humidity: The relative humidity should be within the range of 10% to 75%.

- Environment: The environment should be free from dust, smoke, and corrosive gases. The instrument should not operate in an environment with potential explosions  
In a dangerous environment.
- Exposure to sunlight: Avoid direct sunlight.
- Vibration: The instrument should be placed in a place with less vibration and stability.

## VI. Operating Instructions

### 1. Power-on debugging

- a. Connect to the power supply and turn on the power switch. The main unit screen lights up, indicating that it has entered the startup state.
- b. Click the "Reset" button on the display screen, and the device will start resetting (if there is any abnormal noise during the reset process, please press the emergency stop button in time and check the condition of the device) (ensure that the measuring head is idle during resetting)

### 2. Introduction to homepage functions



- 1. a. Switch "unit" between KG, F, N, LBF
- b. "Standard value": When the tensile force reaches this value, stop applying pressure further
- c. The holding time after the tensile force reaches its upper limit
- d. "Peak value" records the maximum tensile force during the entire measurement process

- e. The "speed" test speed is adjustable  
"Start" to initiate the measurement
- g. "Reset" the reset device (this operation must be performed every time the device is powered on)

### 3. Usage process

- a. Turn on the device
- b. Reset the equipment while ensuring that the measuring head is under no load
- c. Set the upper limit of tension (in two ways)
  - Method 1: You can directly click on the input box and enter the upper limit of the tensile force
  - Method 2: You can directly click on the "Upper Limit" character to enter the selection interface and choose the corresponding parameters. If there is no corresponding parameter in the table, you can customize the parameters on the third and fourth pages of the selection interface for future use
- d. Set the holding time
- e. Press the start button to perform the measurement
- f. After the measurement is completed, the measurement result (PASS or NG) will be displayed on the screen

### 4. Common faults and troubleshooting

Undesirable phenomenon	Cause analysis	Countermeasures
Cannot power on	1. Power supply is not connected 2. The fuse is broken 3. The motherboard is broken	1. Connect to power supply 2. Replace the fuse 3. Replace the motherboard
Fails to reset on power-up	1. The sensor switch is damaged 2. Motor damage	1. Replace the defective sensor 2. Replace the motor
Screen not working	1. Fuse is broken 2. Poor contact of the display screen	1. Replace the fuse 2. Plug in the display screen

## VII.Maintenance

- Ensure the machine is clean and the work surface is free of clutter
- Confirm the measuring range of the machine before use, and do not overload it