

## ATL DIGITAL TENSION METER



### PRODUCT DESCRIPTION

#### Instruction Manual of Digital Tension Meter

##### I. Overview

###### 1.1 Main uses and scope of application

Digital tension meter is a general-purpose portable low-power tension testing instrument, with small size, light weight, easy to carry, wide range of use, high precision, etc., suitable for relay contact pressure, electronic switches, micro automatic telephone equipment contacts And mechanical pressure such as armature pressure,

###### 1.2 Product Features

**1.2.1 Portable:** The instrument is light in weight, small in size and easy to carry. All operations can be completed with one hand during measurement.

1.2.2 The digital display shows the force value. The instrument uses the LCD to display the measured force value, and the reading is more convenient.

1.2.3 Switching between multiple units: the instrument can switch between 5 units: N, Kg, Lb, Oz, and g.

1.2.4 It can be set to automatically shut down without operation, and shut down automatically when the battery is low.

1.2.5 Ultra-low standby power consumption and long use time.

### 1.3 Product Specifications

型号规格	1	2	3	5	10	20
最大负荷值	1N	2N	3N	5N	10N	20N
	0.1Kg	0.2Kg	0.3Kg	0.5Kg	1Kg	2Kg
	0.21Lb	0.41Lb	0.62Lb	1.03Lb	2.07Lb	4.14Lb
	3.6Oz	7.2Oz	10.8Oz	18Oz	36Oz	72Oz
	100g	200g	300g	500g	1000g	2000g
负荷分度值	0.001N				0.01N	
	0.0001kg				0.001kg	
	0.0001Lb				0.001Lb	
	0.001Oz				0.01Oz	
	0.1g				1kg	

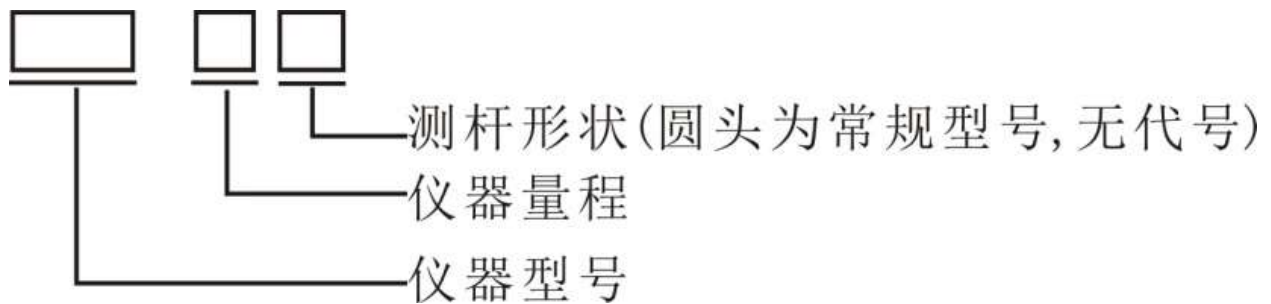
### 1.4 Product technical parameters

1.4.1 Accuracy:  $\pm 0.5\%$

1.4.2 Power supply: AAA battery \* 4

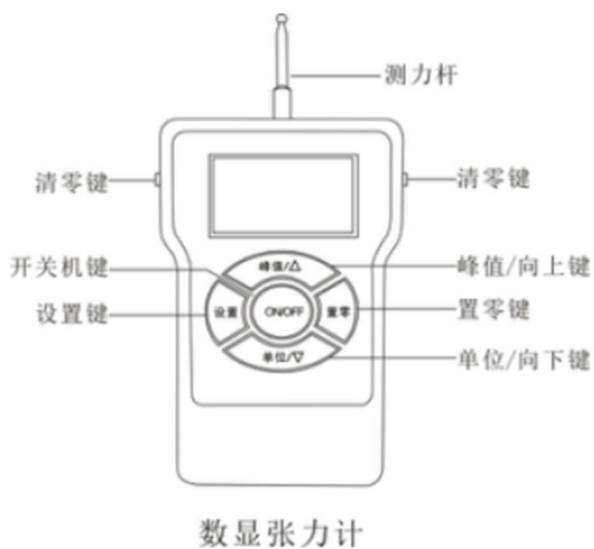
1.4.3 Working current is about 30mA

### 1.5 Model composition and its significance



Second, the overall product structure

### 2.1 Overall structure



2.1.1. Power on / off key: when this key is pressed, the power is turned on or off.

2.1.2. Setting key: users can enter the setting menu through this key in the measurement interface.

2.1.3 Unit / Down key: Press this key on the measurement interface to switch the unit. After entering the setting interface, it has a down function.

2.1.4. Zero-setting key: In the measurement interface, pressing this key will reset the test value on the screen.

2.1.5. Peak / up key: Press this key on the measurement interface to switch the peak state. After entering the setting interface, it has an upward movement function.

2.1.6. Reset button: It has the same function as the reset button on the button, which is convenient for users to use during operation.

2.1.7, force measuring rod: measuring force value.

### 3. Use and operation

#### 3.1 Preparation and inspection before use

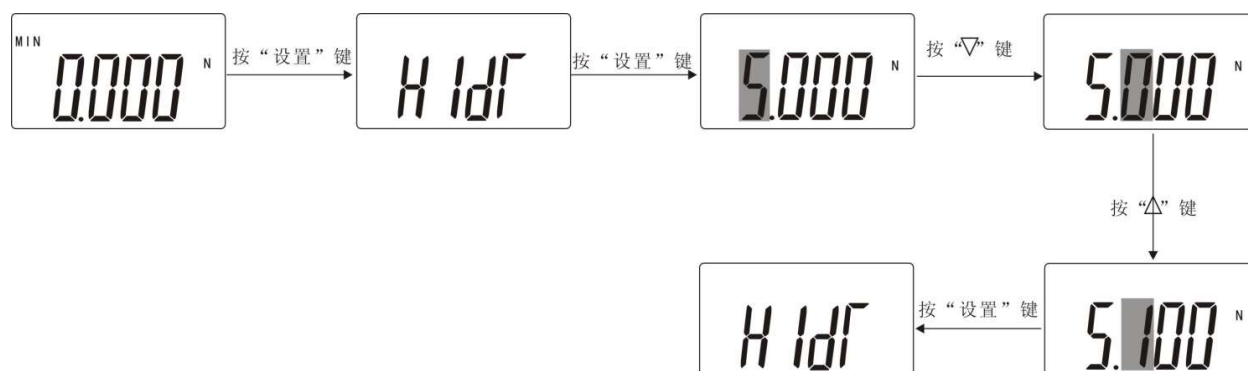
3.1.1. The instrument has no charging function. Before use, check whether the load cell is fixed and the sensor response is good.

3.1.2. The new machine has a built-in battery separator. If the new machine fails to turn on, take out the battery separator at the battery cover and turn it on again.

### 3.2 Operation and instructions in use

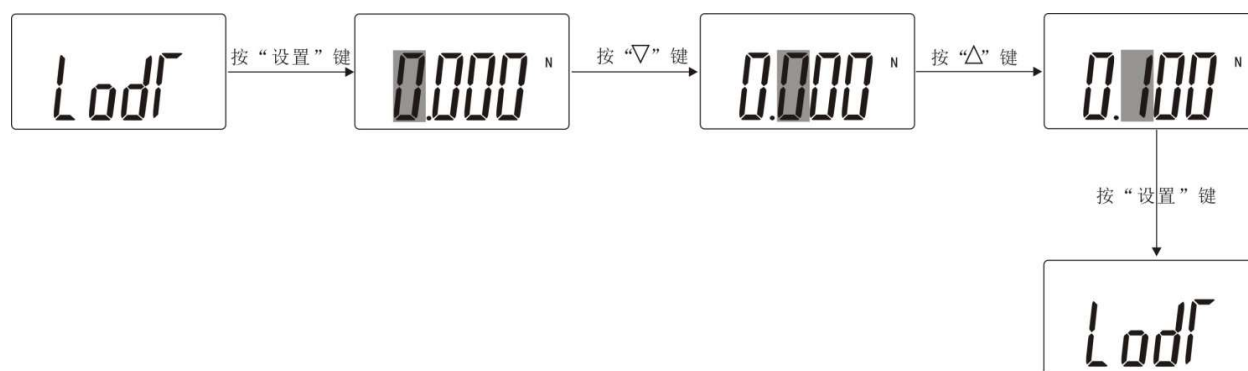
**H ldt**

3.2.1, (HIDT) Upper limit value setting: If the upper limit value is exceeded during measurement, "MAX" appears on the display. After booting, enter the measurement interface, press "Settings" to enter the setting interface, press "Settings" again to enter the upper limit setting, press "▽" Key and "△" Key, select the number you need, press "Setting" key to save, and automatically return to the setting interface. As shown in the figure below:



**Lodf**

3.2.2, (LODT) Lower limit setting: Press "SET" to enter the lower limit setting, press "▽" Key and "△" Key to adjust the number, select the required value, then press "SET" key to save and enter the next function setting, as shown in the following figure:



**offt**

3.2.3, (OFFT) Automatic shutdown time setting: It can be set to automatically shut down from 1 minute to 100 minutes, or it can be set to "0000" not shut down. The instrument defaults to 10 minutes. Press "Settings" to enter the automatic shutdown time setting. press "▽" Key and "△" Key to adjust the number, then press "Settings" key to save.

RESET

3.2.4, (RESET) Restore factory settings: Under this setting item, press \"Settings\" key to restore the factory settings, the instrument will be shut down, if you use the instrument to restart.

### 3.3 Test

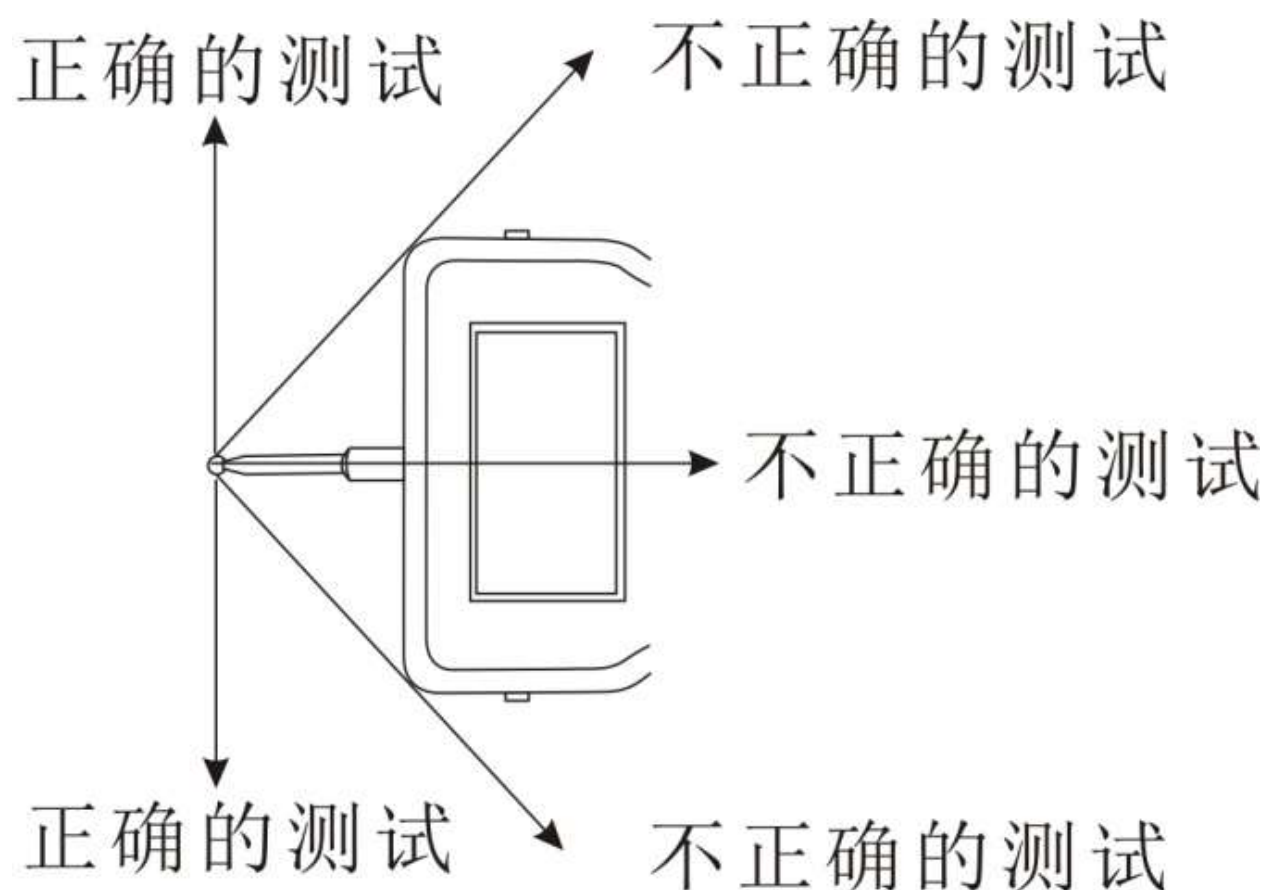
3.3.1. Turn on the switch.

3.3.2. Select the required setting parameters.

3.3.3. Select the required unit.

3.3.4. Use hand-held or fixed instruments to perform the test. When operating the test, just use the force lever to move the object to be tested and move it from a static state to the desired position. The direction of the force should always be vertical.

3.3.5. Test diagram:



### Fourth, maintenance and repair

#### 4.1 Routine maintenance and maintenance

4.1.1. Store and use in a dry environment.

4.1.2. Do not overload.

Note: Do not use volatile chemicals to clean the machine (such as volatile agent, thinner, alcohol, etc.)

### 5. Accessories and optional accessories.