

## Product Information

## Waterproof Tester | WT 04 - IPX3/4 Oscillating Tubes Rain Tester



**Principle:** Simulate the damage of natural water (rain, seawater, river water, etc.) to products and materials, and waterproof testing of product casings.

**Application:** For electrical products, outdoor lamps, electrical cabinets, electrical components, automobiles, motorcycles and their components and other products in simulated rainy climate conditions, the physical and other related properties of the product tested. After testing, the performance of the product is determined to meet the requirements, in order to facilitate product design, improvement, verification and factory inspection use.

**Standard :**

IEC60529:1989 +A1:1999 +A2: 2013 《Degrees of protection provided by enclosures(IP Code)》

GB/T4208-2017 Housing Protection Rating (IP Code) 14.2.3, 14.2.4

GB7000.1 Lamps Part I: General Requirements and Trials 9.2.4 , 9.2.5

**Features:**

1. Suitable for product **IPX3, IPX4 waterproof testing**
2. Double column structure, easy to install, swing pipe rotation smooth.
3. The chassis is equipped with a water storage tank, which automatically controls the water intake and prevents damage to the machine due to lack of water.
4. The use of high-quality servo motor, low noise, swing speed, angle more accurate..
5. Sample loading table using stepper motor, rotation speed and standard angle can be controlled by touch screen.
6. Touch control function for **IPX3 testing, IPX4 testing, customization**: you can set the test time, rain angle,

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swing speed, turntable speed.

7. sample turntable: US304 stainless steel plate processing and manufacturing.
8. The power-off time of the sample power supply can be controlled by the program: power failure (0-999 min) - power on (0-999min) - power failure (0-999min), suitable for samples in the test need to power off.
9. Column structure, equipment running smoothly, the main frame can be packaged as a whole, convenient transportation, saving installation time.
10. The test chamber is equipped with a sample power outlet (standard AC220, 10A; can be customized on demand), then sample can be tested live.

### Technical parameters :

Apply to the product	IPX3, IPX4 test
Tube size	R1000 mm
Spray hole size	Dia 0.4mm
Tube inner diameter	15 mm
Sample turntable's diameter	Dia 800 mm
Flow	IPX3=2.9L/min $\pm$ 5%; IPX4=4.3L/min $\pm$ 5%
Turntable height adjustable range	1300-1700mm
Turntable speed	1-5r/min <b>adjust</b>
The turntable rotates	Always turn forward / forward reverse alternately
Turntable loads	50kg
Tube angle	<b>120° (IPX3), 350° (IPX4), or custom settings</b>
Swing speed	4s' - 240 degrees, 12s' -720 degrees (precise control) or custom settings
Safety protection	Leakage protection, water shortage protection, short-circuit protection
Dimensions	2850*2020*2350 mm
power supply	AC220V $\pm$ 10% ; 50Hz ,1.0kw, Fire line+zero line+protective ground line(Resistance <4 $\Omega$ )
Sample load power supply	AC220V $\pm$ 10% ; 50Hz

### Terms of use :

Environmental requirements	<ul style="list-style-type: none"><li>● Ground is flat, drainage is smooth, the ground and walls are waterproof, setting ground leakage or drainage ditches.</li><li>● Well ventilated.</li><li>● No strong electromagnetic field around.</li><li>● No flammable, non-explosive, non-corrosive substances and dust around .</li></ul>
Temperature	5°C ~ 35°C
Humidity	≤85%
Atmospheric pressure	86kPa ~ 106kPa
Power supply conditions	<ul style="list-style-type: none"><li>● Install the appropriate capacity of the leakage protection air switch for the device, the switch must be used independently of the device.</li><li>● Do not use the knife-switch or power outlet.</li><li>● Distance is no more than 2m from the air switch of creepage and equipment .</li></ul>
Water conditions	<ul style="list-style-type: none"><li>● The water pressure is not less than 0.2Mpa and a 4-point tap is installed.</li><li>● The tap is no more than 2 meters away from the device.</li></ul>

Accessories:

1. Filter element: 1pcs;
2. Test needles: 100 pcs;

