



HydroDetector

Hydrostatic Head Tester

The HydroDetector Hydrostatic Head Tester determines the water penetration resistance of materials under certain pressures. It is widely used in textiles, membranes, paper, and building materials. It tests their waterproof performance in humid or water-pressure environments.

The testing principle is: apply pressure through water column to the sample. Do this until the water either penetrates the sample or it fails (when a third water drop appears on the surface). The pressure sensor records the pressure value at this moment, which is the hydrostatic head value of the sample. The HydroDetector is a new intelligent hydrostatic head tester on the market. It uses IoT to connect the instrument with phones and computers. It integrates with ERP and LIMS systems. This boosts testing efficiency and enables smart, digital management of test results.

The HydroDetector Hydrostatic Head Tester is widely used for waterproof performance testing of various materials, such as:

Waterproof clothing: raincoats, waterproof pants;

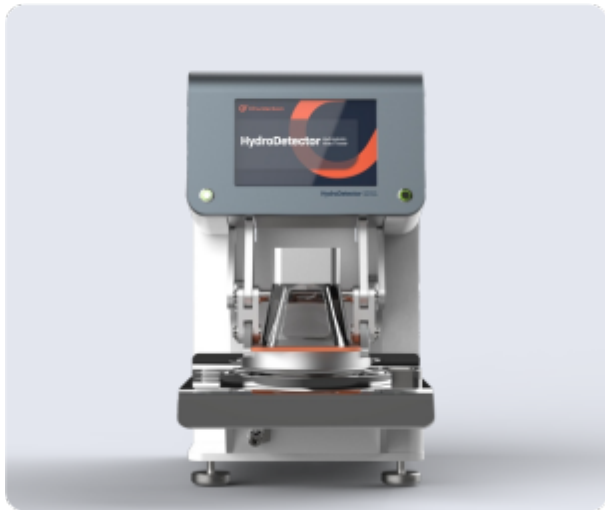
Outdoor equipment: tents, backpacks;

Building materials: waterproof membranes, ground films;

Medical supplies: protective clothing, surgical gowns.

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- **New intelligent hydrostatic pressure test, more efficient**
The instrument is connected via IoT to the SmarTexLab APP in the phone/PC. And the app can connect to ERP/LIMS via an API. Or, the instrument can connect directly to ERP/LIMS. There are test orders and sample information in the system, and the instrument can start the test and record the sample info, test process, and test results. The system will then summarize these into a test report. The report can be sent to SmarTexLab or ERP/LIMS. The relevant parties can view the report in real time.

The operator can remotely monitor the test status of multiple instruments simultaneously and receive an alert directly on their smartphone when the third drop water appears.

In SmarTexLab, you can set up programs to start or stop the instruments. You can chat with ChiuVention service staff for quick support. You'll get reminders that instruments need calibration, maintenance, and new consumables. Regular OTA remote upgrades are available.

- **More reliable test results.**
The high-precision pressure sensors ensure the accuracy and repeatability test results. Stable pressurization system can output pressure evenly and reduce errors.
- **Multiple test modes to meet different needs.**
A variety of test modes are available to meet different testing needs, such as boost mode, constant pressure mode, constant pressure with fixed-timing mode, etc.
- **Wide range of applications**
Suitable for a wide range of materials, such as textiles, film materials, paper, construction materials, etc., and the pressure range can be adjusted according to different materials and testing requirements.



Power

220/110V 50/60Hz



Weight

60kg



Dimension

360*670*635 mm (L*W*H)

Specification

Standard test head	100cm ²
Units	Pa, kPa, mmHg, cm H ₂ O
Pressure range	0~500 Bar (50m water column)
Rising speed of water pressure	1 ~60 kPa/min, with variable and adjustable speed

Standard

AATCC 127 Option 2
ISO 811
GB/T 4744
GB/T 40910
JIS L1092

Optional Standard

ISO9073-16
EN 1734
ISO 1420
AATCC 208
IS 7016(Part7)
NWSP 080.6.RO(15)
GB/T 24218.16
FZ/T 01004



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