



PW-K007

Hydrostatic Head Tester

PRECISION IN HYDROSTATIC PRESSURE TESTING



Precision at Every Stage. Confidence in Every Test.

Principle and applications

Water penetration resistance of fabrics and technical surfaces

PW-K007 applies controlled water pressure to the underside of a specimen and records penetration droplets and associated pressure. It supports increasing-pressure and constant-pressure test modes.

100 cm²

Test area

1000 kPa

Max pressure

≈0.01 kPa*

Resolution

* 0.1 cmH₂O; equivalent to 0.00980665 kPa.

Test sequence

- 1 Place and clamp specimen
- 2 Select recipe and pressure mode
- 3 Mark penetration with DROP
- 4 Analyze and report results

Applications

Outerwear and protective textiles
Coated and laminated fabrics
Tents, awnings and tarpaulins
Industrial and technical textiles

Pressure is released automatically after the test.

Technical specifications

Product code: PW-K007

Pressure range	0–1000 kPa
Pressure resolution	0.1 cmH₂O (≈0.01 kPa)
Test area	100 cm²
Standard rise rates	0.981 / 5.884 kPa/min
Adjustable rate range	0.981–58.840 kPa/min
Test modes	Ramp / constant pressure
Pressure units	kPa, cmH₂O, mbar, psi
Touchscreen	7-inch, color
Specimen clamping	Pneumatic, two-hand control
PC interface	Ethernet
Power supply	220–240 V AC, 50/60 Hz
Air supply	4–6 bar, dry and oil-free
Software	HydroLab
Interface languages	TR / EN / FR / IT / RU

Pressure rise-rate equivalents: 10, 60 and 600 cmH₂O/min.

0.01 kPa is an approximation; resolution is specified as 0.1 cmH₂O.

Test methods and touchscreen

Increasing pressure / RAMP

Controlled rate of pressure rise
1st, 2nd and 3rd drop recording

Constant pressure / HOLD

Hold at a defined pressure
Observe leakage over selected duration

Actual instrument HMI / TEST

PROWHITE		TEST				ISO 811 60 cm/min	
IDLE							
PRESSURE				TIME s	SET / TARGET		
88888.8 cm H ₂ O				88888	88888.8		
PROGRESS TO MAX				PEAK	CLAMP bar		
				88888.8	88.88 bar		
DROP 1	8888 s	DROP 2	8888 s	DROP 3	8888 s		
88888.8		88888.8		88888.8		LID	E-STOP
FILL		OPEN CLAMP	START	STOP	DROP	SAVE	
						DRAIN	
TEST	RECIPE	RESULTS	SETTINGS	CALIB.	SERVICE		

Recipe management

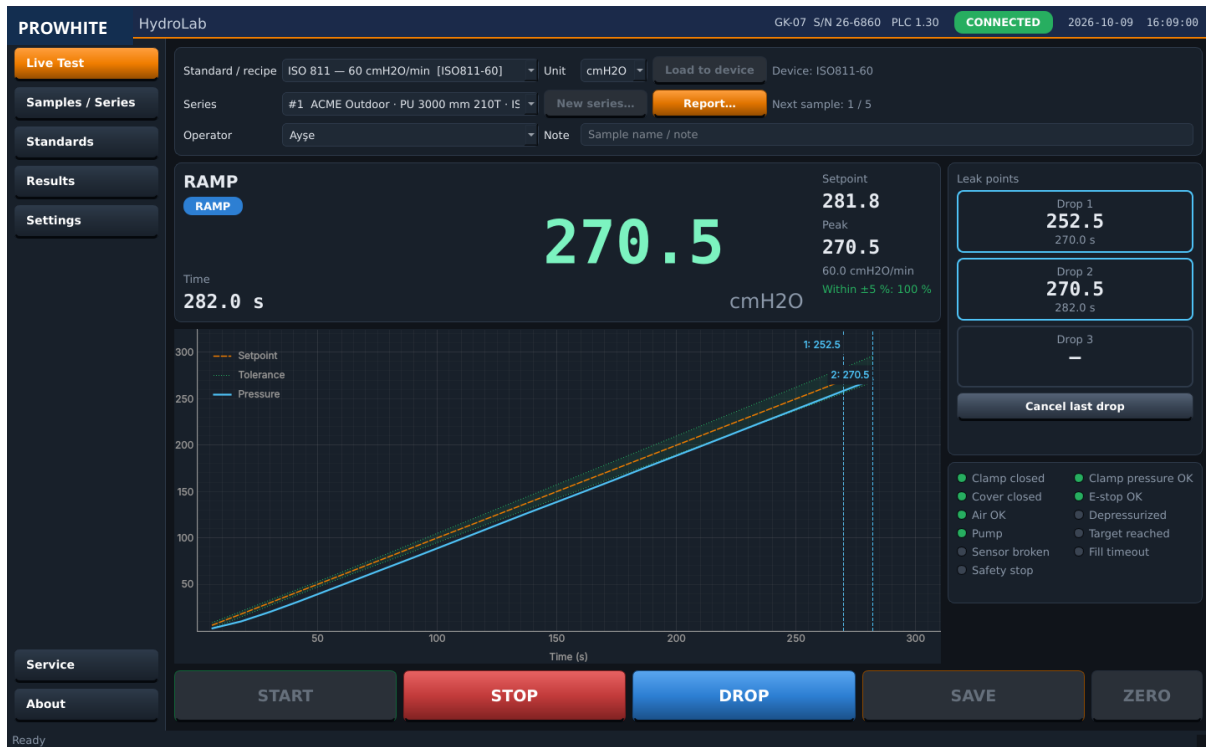
PROWHITE		STANDARD / RECIPE			
ISO 811 60 cm/min	ISO 811 10 cm/min	ASTM 127 60 cm/min	EN 20811 60 cm/min	ISO 1429 CONSTANT	CUSTOM
TEST MODE		RAMP	CONSTANT		
RATE OF RISE (unit/min)		88888.8	cm H ₂ O	SAVE RECIPE	
MAX. PRESSURE (auto stop)		88888.8	cm H ₂ O		
TARGET PRESSURE (constant)		88888.8	cm H ₂ O	RESTORE DEFAULT	
HOLD AT TARGET (s)		888	s		
END DROP COUNT (1-3)		8			
ALERT PRESSURE (0 = off)		88888.8	cm H ₂ O	Edit values, then SAVE RECIPE	
ALERT TIME s (0 = off)		8888	s		
AUTO STOP TIME s (0 = off)		8888	s		
TEST	RECIPE	RESULTS	SETTINGS	CALIB.	SERVICE

Multiple recipes, adjustable limits and automatic test termination.

HydroLab — Live testing software

Actual HydroLab interface screenshots

Live pressure–time graph



Live monitoring

Pressure and elapsed time
Target curve and tolerance band
Measured rate of rise
Three drop pressure/time records

Connectivity / controls

Ethernet connectivity
Automatic reconnection
HMI / PC recipe synchronization
Standalone instrument operation

Testing continues on the instrument if PC communication is lost.

Data analysis and reporting

Sample and series management

PROWHITE HydroLab GK-07 S/N 26-6860 PLC 1.30 **CONNECTED** 2026-10-09 16:09:39

Search customer, fabric, lot... ☐ Show closed New Edit Use for test Close / reopen Delete

#	Date	Customer	Fabric	Lot	Standard	Valid / planned	Mean	Status
▶ 1	2026-10-09 16:08	ACME Outdoor	PU 3000 mm 210T	L-2231	ISO 811:2018	4/5	335.2 cmH2O	open

#1 ACME Outdoor · PU 3000 mm 210T · ISO 811 — 60 cmH2O/min Report... Export .hhtest Import .hhtest

Sample	Date	Operator	Drop 1	Drop 2	Drop 3	Result	Duration	Status	Valid	Invalid reason	Note
1	2026-10-09 16:08	Ayşe	252.5	270.5	288.6	288.6	300 s	OK	✓		
2	2026-10-09 16:09	Ayşe	324.5	336.6	354.6	354.6	366 s	OK	✓		
3	2026-10-09 16:09	Ayşe	222.7	228.8	246.9	246.9	258 s	OK	✓		
4	2026-10-09 16:09	Ayşe	378.4	390.4	408.4	408.4	420 s	OK	✗	Edge leakage	
5	2026-10-09 16:09	Ayşe	426.6	438.6	450.6	450.6	462 s	OK	✓		

n = 4 mean 335.2 cmH2O s = 88.8 CV 26.5 % min 246.9 max 450.6 Valid / Invalid Details Delete sample

Ready

Statistics

Mean and standard deviation
Coefficient of variation (CV%)
Minimum / maximum
Valid / invalid sample flags

Reporting

PDF and Excel test reports
CSV data export
Pressure-time traces
Five report languages

Saved tests can be filtered; series data and curves can be exported.

Standards, safety and equipment

ISO 811:2018	10 / 60 cmH ₂ O/min
EN 20811	Increasing pressure
AATCC 127	Increasing pressure
ISO 1420	Constant-pressure option
Custom methods	User-defined parameters

Safety and operation

- Two-hand clamping control
- Emergency stop function
- Cover and pressure state checks
- Automatic pressure release
- Password-protected service

Standard system

- 100 cm² test head
- Pneumatic specimen clamping
- 7-inch color touchscreen
- Specimen illumination
- HydroLab via Ethernet

Note: Method settings shall follow the applicable edition of each test standard.

Optional accessories are quoted only for verified configurations.



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Request a quotation