



OPERATOR'S GUIDE

HydroView Hydrostatic Pressure Tester

Covering Serial Numbers 1936-21-1000 & upwards.

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JAMES HEAL

At James Heal, we are dedicated to designing and developing high precision testing instruments and test materials for physical and colour fastness testing. Our worldwide Service and Calibration division and expert technical assistance complement our product range, adding real value to your laboratory testing activities.

Setting the Standard

We are committed to forming close relationships and have established numerous partnerships within the textile industry, from trade and standards organizations, to test houses, customers and distribution partners.

With a heritage spanning more than 140 years, we have evolved and grown through a culture of continuous improvement, resulting in a thorough understanding of the applications, operating conditions and requirements of customers worldwide - from independent testing laboratories and test houses, to fabric suppliers, manufacturers and retailers.

Using knowledge and expertise, we consistently set the industry standard through product innovation and technology, with customer and user needs, present and future, driving our technological advancements. You can be assured that with James Heal, you will always receive the highest levels of product quality and customer service. We have Agents and Distribution partners all over the globe, ensuring locally available product whenever, and wherever you need it.

Areas of Expertise

Textile: Colour Fastness

- Chlorinated Water
- Dry Cleaning
- Dry Heat
- Hot Pressing
- Laundering
- Light

Textile: Physical

- Abrasion
- Air Permeability
- Bursting Strength
- Compression and Puncture
- Crease and Wrinkle Recovery
- Crimp
- Drape
- Durability
- Flammability
- Mass per unit area
- Pilling and Fuzzing

- Perspiration
- Phenolic Yellowing
- Print Durability
- Rubbing
- Washing
- Water
- Shrinkage
- Seam Slippage
- Security of Attachments
- Snagging
- Spray Rating
- Stretch and Recovery
- Surface Deterioration
- Tear Strength
- **Tensile Strength**
- Washing and Drying
- Water Resistance

Non-Textile

- Bursting strength of nonwovens, plastics, paper and medical products
- Micro-scratching of laminates, wooden, painted, automotive and high gloss surfaces
- Physical and colour fastness testing of leather
- Rubbing fastness of laminates and wooden surfaces
- Tear strength of paper and plastic

INTRODUCTION TO HYDROVIEW

Please read this operator guide before commencing installation and use of HydroView.

Features & Benefits

- 10.1" Touchscreen user interface with TestWise Touch Integration •
- Integrated Camera for posttest analysis •
- Integrated custom test report generator
- User controllable Audio and Light Alerts •
- Integrated wastewater drawer
- Integrated water level control •
- Specimen illumination control •
- Automatic burst detection
- Capable of providing 10 bar, a 100 meter head of water to specimen.

Service & Calibration

- Worldwide Service
- ISO 17025 based calibration service
- 18 Months' Warranty

Technical Assistance

- Operator training
- Knowledge transfer
- Applications support
- Engineering support

Standards

- EN ISO 811
- EN 343
- EN ISO 9073-16
- NWSP 080.6R0
- JIS L 1092 Method A
- AATCC 127

- AATCC 208
- GB/T 4774
- BS 2823

GENERAL INFORMATION

Manufactured by: James Heal™

Richmond Works Lake View Halifax HX3 6EP

Telephone No: 01422 366355

This manual is valid for the James Heal[™] HydroView, Hydrostatic Head Tester.

This manual covers the operation and day to day maintenance for the James Heal[™] HydroView, Hydrostatic Head Tester. It has been written and illustrated using the best possible information at the time of publication. The manual should be regarded as part of the equipment and should be kept with it throughout its working life.

Any difference between the manual and the equipment reflect improvements introduced after the publication of the manual. Any amendments received should be recorded below and incorporated in the relevant part of the manual.

Changes, technical inaccuracies, and typographical errors will be corrected in subsequent revisions.

As part of our policy for continuous product development and improvement, James Heal[™] reserves the right to make changes in design and specification without notice.

Revision History

Revision	Date	Originator	Details Of Revision
1	06/05/2021	AC	Op Guide Created
2	04/05/2022	LK	Standard List Amended
3	08/06/2022	LK	European Plug Guidance Added

See front cover for Publication number, e.g., 290-1536-1

General Description and Use of Equipment

Warning: The equipment must not be used for any purpose other than for that which it was intended.

Description of Hydrostatic Pressure

Hydrostatic pressure is the force distributed over an area exerted by water.

Description of Water Resistance

The water resistance of a fabric, is the characteristic to resist wetting and penetration by water.

Description of Water Repellency

The water repellence of a fabric, is the characteristic of fibre, yarn, or fabric to resist wetting.

SAFETY AND ENVIRONMENTAL PROTECTION SUMMARY

Note: All operators and customer maintenance personnel should familiarise themselves with this manual before using or servicing the equipment.

Safety Summary



Emergency Stop



This switch is designed to bring the drive mechanism to an immediate halt in an emergency situation.

When pressed the switch will latch in the stop position.

To unlock the switch, twist the red cap in a clockwise direction.

Attempting to start a test with the switch in the stop position will result in a warning message being displayed.

Warning! The safety switch and emergency stop buttons merely stop the machine - they do not isolate it from the electrical supply.



Test Area and Moving Components – Warning

Moving components such as the clamp guard and clamp head represent crush and entanglement risks. It is important that users of the equipment understand these features and residual risks. Stand clear and do not reach into the test area when testing has commenced.



Water Spills – Warning

Make sure any water spilled outside the test head before, during or post testing is cleared. Preventing slips hazards in the lab environment. Contamination of the test area could also occur, reducing the reliability of testing.



Regular cleaning of the system is required to prevent the risk of waterborne diseases such as Legionnaires'. See <u>Cleaning & Maintenance</u> for further details on how to clean the system.



Electric Shock – Warning

No access to the internal workings of HydroView by operators, only by qualified and trained personnel. If users see exposed or damaged power cables do not use or touch the instrument and immediately seek technical assistance.

Mains switch is located on the rear right hand side of the instrument.





Do not allow general access to HydroView only to those competent and trained personnel. HydroView should be stored in a controlled environment where only authorise personnel have access.



Manual Handling – Warning

Avoid lifting or moving the test equipment without relevant manual handling training.

Warranty – Warning

Do not attempt to gain access to the internal workings of the HydroView, if tampered with this will invalidate your warranty.

Note: The equipment must only be operated in an environment with adequate lighting with no shadow or stroboscopic effects.

Safety Precautions



Ensure electrical outlet is dedicated (no other equipment on the same circuit breaker).

Only the voltage indicated on the unit.

Serial No/Rating Plate is connected to the unit.

It is recommended that the mains electrical isolation switch be lockable and located in a visible position.

Do not operate instrument with a damaged power cord until it has been examined and repaired by an authorised service representative.

Ensure power cord is protected from contact with hot surfaces.

The power cord must not be subject to foot or machine traffic and must not be placed on the floor without adequate protection.

Always have electric box covers in place when the instrument is plugged in and the mains isolator switch is ON.

Do not use an extension cord.

Do not defeat or bypass built-in equipment safety features.

Any maintenance, servicing or adjustments must only be carried out by suitably skilled or properly instructed/supervised personnel.

Operator Safety



There is a possible hazard of the sample rupturing, splashguard must be fitted when in use.

Appropriate Personal Protective Equipment (PPE) must be worn when using the instrument, performing regular testing tasks and performing maintenance.





Always isolate from the electrical supply before carrying out authorised maintenance work on the machine.

Access to the main electrical power isolator must not be obstructed.

The area around the machine should be kept clean, dry, and clear of any waste material.

Any maintenance, servicing or adjustments must only be carried out by suitably skilled or properly instructed / supervised personnel.



Finger Trap Hazard

When operating the splash guard from its clamped position to its un-clamped position ensure you have your hands away from the test area.



Customer Responsibilities

Cleaning & Maintenance

Cleaning and maintenance should only be carried out by trained/competent personnel.

Correct PPE for cleaning needed to prevent burns to skin and eye damage when using cleaning agents.

INSTRUMENT SPECIFICATION

	James Heal™ HydroView
Machine Only W x D x H (mm / inches)	W 460 x D 593 x H 666mm W 18.11 x D 23.35 x H 26.22"
Weight (kg / lbs)	100kg
Electrical Requirements	Voltage: 120-240V Frequency: 50/60Hz Current: 1A



PRE-INSTALLATION

Preinstall Checklist

HydroView is a heavy test instrument. Due to the dependence on the instruments precise test results care needs to be taken when installation takes place, preventing damage or compromise of the standardised test instrument, which could result in invalid results.

- 1. The final location of HydroView has a weight bearing capacity of at least 100kgs.
- 2. The final location is set at a usable access height, for users to load the samples and interact with the touch screen.
- 3. Ensure the surface is level, some adjustment can be achieved through the adjustable feet on the instrument.

Customer Responsibilities

The James Heal[™] HydroView instrument will be shipped in one crate, if ordered as a standalone instrument. The contents of which will need transporting to the install site by James Heal or associated agent.

James Heal or associated agent will install this instrument, we advise all installers to be familiar with the Safe Working Procedure Document of HydroView before commencing installation.

Prior to installation check content of delivery using with reference to Unpacking section 6.2.

General responsibilities include:

Providing James Heal with delivery instructions.



Having the necessary equipment and/or personnel for unloading the delivery vehicle and moving the equipment to its final site.

Preparing the installation site prior to the arrival of the instrument.

Delivery



Handling Equipment Provide the necessary equipment, such as genie lift or forklift for unloading the unit.



Provide personnel for unloading, unpacking and transferring the equipment.

Clearance

Check the delivery route and remove all obstructions.

Unit

Minimum width: 460mm Minimum height: 666mm Minimum Depth: 593mm

Minimum weight: 100kg

General Planning

Electrician

Have an electrician available to provide the necessary wall outlets, prior to installation.

Area Planning

Room Layout

Provide adequate space for installing and operating the equipment. A minimum of 1000mm/39.4" in front of the machine is recommended.

Work Surface

Provide a stain and chemical resistant work surface for ease of cleaning.

Work Surface Level

The work surface should be flat and level in both directions.

Work Surface Load-Bearing Capacity

The work surface must be capable of supporting the operating weight of the equipment.

Electrical

Note: The electrical installation should conform to the codes and requirements of the country or locality in which the equipment is to be installed.

Electrical Specifications

Voltage: 120-240Vac Frequency: 50/60Hz Current: 1AT Fusing: 2 x 10AT Time delay fuses Caution: Double-pole neutral fusing.

This instrument is supplied with a European mains plug lead. Using European plug leads can result in polarity reversal. Therefore, double fusing is used within this equipment. This ensures that protection is provided for both phase-to-ground faults & phase-to-neutral faults.

Power Cord

The equipment is provided with a 2 meter long power cord for EURO, US and UK mains connection.

INSTALLATION

Receiving Inspection

Your James Heal[™] HydroView was carefully inspected and tested prior to shipment. Upon its arrival, inspect the crate for damage. Unpack the machine as soon as possible and conduct a thorough examination of the unit and its components. Do this in the presence of the carrier if at all possible. If damage is noted, take photographs of the damaged portions and immediately file a claim with the carrier. NOTE: If the carrier is not notified within 48 hours of delivery, they cannot be held responsible.



Beware of sharp edges, splinters, pinch points, exposed nails and staples when unpacking. Wear leather gloves.



Wear safety shoes, glasses and gloves when unpacking the equipment. Beware of sharp edges, splinters, pinch points, exposed nails and staples.

Unpacking

Unpacking Checklist

List of components/assemblies that will be delivered:

Stock Code	Item name	Quantity
905-400	HydroView Instrument	1
551-302	Splash Guard	1
551-222	Wastewater Draw	1
794-763	Handheld Button / Switch	1
551-301	Sample Plate	1
794-819	Pneumatic Adaptor	1
551-204	Water Level Wiper	1
	x2m: 8mm OD Black Nylon Tube (Water)	1
327-378	x2m: 6mm OD Soft Nylon Tube Blue (Air)	1
551-305	8mm Pipe Sinker	
785-118	Blue 'J' Cloth	1
142-304	Mains Lead Straight (US, EURO, UK)	1

Moving the Instrument



Personal Protective Equipment must be worn, safety shoes and non-slip gloves.

The equipment is heavy. Use sufficient personnel and/or lifting devices for its movement. Provide the necessary equipment, taking note of the centre of gravity to ensure the lift is completed in a safe manner.

Provide adequate space for installing and operating the equipment.

The floor and work surface must be flat and level and capable of supporting the operating weight of the equipment.

Lifting Points + Transport



2. The lifting eyes will need to be removed from the storage holes on the chassis and inserted into the top of the lifting pillars.Once the instrument has been lifted into its operational position, remove the lifting eyes, and return the upper cover to the instrument.	<image/>
3. Use a scissor lift or portable lifting platform to transport the instrument.	
 4. Do not lift the instrument from the regions highlighted in red. Under screen bezel Sheet metal above test area. Drawer slider. 	

Installation Procedure

Ensure path to installation site is clear of obstacles and suitable lifting equipment is available, see pages 16-17.

Ensure HydroView is placed on an appropriate load baring work surface at the right height for operatives to load test samples and interact with the touch screen comfortably.

It is important the instrument is levelled during the installation of the instrument, see page 19.

Ensure it is located close to a power supply.

Air Supply:

- 10 Bar for best clamping performance.
- 6mm outside Diameter Pipe. (Same side as power supply.)

Water Supply:

- 8mm Outside Diameter Pipe (opposite side to power supply at the rear of the instrument.)



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Levelling the instrument



Connections Preparation

Electrical

- Stand the instrument on a firm and level surface.
- Connect the electrical power supply to the mains input using the lead provided taking note of the electrical specifications on page 14.

Spares

Part Spares	Quantity Provided	Stock code
Splash Guard	1	551-302
Wastewater Draw	1	551-222
Handheld Button / Switch	1	794-763
Sample Plate	1	551-301
Pneumatic Adaptor	1	794-819
Water Level Wiper	1	551-204
x2m: 8mm OD Black Nylon Tube (Water)	1	
x2m: 6mm OD Soft Nylon Tube Blue (Air)	1	327-378
8mm Pipe Sinker	1	551-305
Blue 'J' Cloth	1	785-118
Mains Lead Straight (US, EURO, UK)	1	142-304

PRODUCT OVERVIEW

Instrument and Components







User Creation and Management



5. Edit/Enter a new username by selecting the username button.	E 🕅 HydroView	Edit Users	16:47:46 11 October 2021
A keyboard will pop up to allow you to	Users	+ Name	User 💌
type a new name.	Administrator	Title	
Select the tick button to confirm.	🔎 Engineer	Bassword	****
	Operator	rassword	
	User	× Engineer	
		Administrator	
	Back Save		
6. Add a title and a password to the user in the same way.	= 🕅 HydroView	Edit Users	16:49:26 11 October 2021
You can provide the new users with	Users	+ Name	James 💌
administrator permissions, (See below)	 Administrator Engineer 	Title	Mr
Select save to create new user. This	Operator	Password	****
will return you to the user account menu.	James	Engineer	
Log out.		Administrator	
	Back Save		
Once logged out, select Login and select the new user, enter the	E HydroView	Select User	16:49:41 11 October 2021
password if you have set one for the	Funiment	A durinistructure •	0
	Built-in Account	Built-in Account	Operator 🖕
	James 💄		
	Mr		
	Back		

User Permissions

Administrator

Testing: Standards and Quick Test Standards: Management Test History: Management Reports: Export and Customisation System: Management

Operator

Testing: Standards and Quick Test. Test History: Management Reports: Export and Customisation

Engineer

Calibration and Instrument Set Up Plus management of all other features

General Settings

Login and select settings icon from the home screen.		HydroView	User	Accounts	11 Oc	16:47:38 ctober 2021
			Operator	Login		
			e Edit Users	Logout		
Various system settings can be	📃 🔿 Hydr	oView	Settings	↓ 0.0 °C		11:05:08
controlled. Not all users can access all	General		Report	Date Time	, in the second s	Cam
setting menus.	Theme	Light	Dark	Pressure Units	mbar	
Theme: Light and Dark	Brightness		100 🔆	Time Format	sec	
Volume: 5 – 100%	Volume	50		Pressure Rate Unit	mbar	
Sounds: clicks and notifications	Clicks			Pressure Rate Time Unit	sec	
Default Test Parameters:	Notifications			Temperature Unit	-C	
- Time Format			Version 1.0.8123.	Language 18796 Firmware :		
- Pressure Rate Unit						
- Pressure Rate Time Unit - Temperature Unit	Save	Create Diagnostic				
See your administrator to change the system language.						

Report Editing



2. From the settings screen, select	E 🔿 HydroView	Settings	6.0 °C № 3 [®]	14:46:02 06/04/2022
report on the menu bar.	General	Report	Date Time	Car
	Report Settings	+	James Heal Javes Heal Javes Heal Javes Heal Address Like 1 Address Like 2 DP Code	
	James Heal	× ×		
	Save Create Diagnostic	Program Chip Factory Rese	t	
3. To create a custom report header for your PDF reports, select the plus icon.	HydroView	Settings	Data Time	14:46:56 06/04/2022
Select the conied report header, it will	Report Settings	+	⊘ James Heal	
be highlighted with a blue tick.	James Heal		Lik 21 Addres Live 1 Addres Live 2 20 Date	
	James Heal			
Select the pencil icon to edit the report header.				=
	Save Create Diagnostic	Program Chip Factory Reset	t	
4. Here you can enter your company		Settings	13	09:12:36 3 October 2021
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Select your logo file and select the upload icon.				
	Change Logo			ок
This will then display your uploaded logo on the report layout screen.	Save Create Diagnost	ic Program Chip Fac	tory Reset	
7. Add your address, contact or other	😑 🔿 HydroView	Settings	6.0 °С 💕 🍏	15:00:12 06/04/2022
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the header.	Report Setting ABC Test Company	1	Address	+
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			211 LUUE	
Then simply select the cross to delete or the pencil to edit.	Change Logo			▼ ox
	Save Create Diagnost	ic Program Chip Fac	Contract Con	
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header.	Report Settings	+	ABC Test Company	
	James Heal			
	ABC Test Company	/ ×		
	Save Create Diagnost	ic Program Chip Fac	Constant and the second	

Exporting Results

1. To select individual tests for export select	= 🔿 HydroView	Test History	4oz Green	18.3 °C	1	15:46:28 06/04/2022	
and hold, the result will be highlighted blue.	Name Result	Time =+	402 Green				
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	EN ISO 811 Displaying 10 / 10 Tests - 1 Selected	06 April 2022 14:27					
	Soloct All Deselect	Deselect All	Search	Delete	⊻ Selected	Export Selected	
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Backup to USB to the USB.							
Export the test report as a PDF.							
Save To PDF							
Export the results as an excel file.			۲	H	E		
Save To Evrol			Save Locally	Save To USB	Save To PDF	Save To Excel	
Save to Lacer							
	Back						
3. You can select multiple tests for export at	E 🔿 HydroView	Test History		18.3 °C 🍵	2	15:47:49 06/04/2022	
3. You can select multiple tests for export at the same time.	Name Result	Test History	WBCM - Orange	18.3 °C 🍵	8	15:47:49 06/04/2022	
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3. You can select multiple tests for export at the same time.Simply select and hold each test to highlight these and then select export selected.	Argen Constant of the second sec	Time	WBCM - Orange	s 2 Pressure	Pressure 🐔	15:47:49 06/04/2022	
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3. You can select multiple tests for export at the same time.Simply select and hold each test to highlight these and then select export selected.You can also search and block select searches. See page 30 test history	August Constant August Constant August Constant August Constant August Const	Time 211.5 mbar 06 April 2022 1648 06 April 2022 1648 06 April 2022 1659 8 mbar 06 April 2022 1649 27 mbar 06 April 2022 1649	WBCM - Orange	18.3 °C	Pressure 6 637.1 637.1	154749 06/04/2022	
 3. You can select multiple tests for export at the same time. Simply select and hold each test to highlight these and then select export selected. You can also search and block select searches. See page 30 test history management and searches for more detail. 		Test History Time 11.3 mbar 00 April 2022 15.45 06 April 2022 15.45 06 April 2022 15.41 06 April 2022 15.41 27 mbar 06 April 2022 16.41 27 mbar 06 April 2022 16.41	WBCM - Orange	18.3 °C s 2 Pressure 0 0 	Pressure (***) 637.1 637.1	154749 06/04/2022	
3. You can select multiple tests for export at the same time.Simply select and hold each test to highlight these and then select export selected.You can also search and block select searches. See page 30 test history management and searches for more detail.	August Test Quick Test TSF - Grey Marl EN ISO 811	Time 11.0 11.1 11.0 0.6 11.0 0.6 11.0 0.6 11.0 0.6 10.0 0.6 10.0 0.6 10.0 0.6 10.0 0.6 40.0	WBCM - Orange Number of Speciment Min Max Std Dev CV Mean	18.3 °C (10) s 2 Pressure (10) 0 	Pressuro () 637.1 637.1 637.1 637.1 mbar	154749 06/04/2022 Ime 1048 1048 1048 1048 1048 	
3. You can select multiple tests for export at the same time.Simply select and hold each test to highlight these and then select export selected.You can also search and block select searches. See page 30 test history management and searches for more detail.	Constant Sector Se	Control Control <t< th=""><th>WBCM - Orange</th><th>s 2 Pressure 6 0 0 mbar</th><th>Pressure 637.1 637.1 mbar</th><th>15.47.49 06/04/2022</th><th></th></t<>	WBCM - Orange	s 2 Pressure 6 0 0 mbar	Pressure 637.1 637.1 mbar	15.47.49 06/04/2022	
3. You can select multiple tests for export at the same time.Simply select and hold each test to highlight these and then select export selected.You can also search and block select searches. See page 30 test history management and searches for more detail.		Fact History C11.3 mba 00 cycl 2022 16.02 00 cycl 2022 16.02 04 cycl 2022 16.02 04 cycl 2022 16.02 04 cycl 2022 16.02 05 cycl 2022 16.02 06 cycl 2022 16.02 07 08 cycl 2022 16.02 09 cycl 2022 16.02 01 cycl 2022 16.02 02 cycl 2022 16.02<	WBCM - Orange Number of Specimens Min Max Std Dev CV CV Mean Stat	s 2 Pressure 4 0 0 mbar 2 Delete	Pressure 637.1 637.1 637.1 637.1 637.1 637.1 637.1 637.1 637.1 637.1 637.1 637.1 637.1 637.1 	154749 06/04/2022	
 3. You can select multiple tests for export at the same time. Simply select and hold each test to highlight these and then select export selected. You can also search and block select searches. See page 30 test history management and searches for more detail. 	Arrow Barrow HydroView Name Barrow Result Result Arrow Result	Test History Time 11.1 mile 0.2 (1.1 mile) 0.4 (21 mile) 0.6 April 3022 (164) 47.1 mile 0.6 April 3022 (164) 0.7 April 3022 (164) 0.7 April 3022 (162) 0.6 April 302 (162) 0.6 April 302 (162) </th <th>WBCM - Orange</th> <th>Las c 2 Pressure 0 0 0 mbar 2 Delete</th> <th>Pressure 6 637.1 637.1 637.1 637.1 637.1 637.1 637.1 850/cted</th> <th>154749 06/04/2022</th> <th></th>	WBCM - Orange	Las c 2 Pressure 0 0 0 mbar 2 Delete	Pressure 6 637.1 637.1 637.1 637.1 637.1 637.1 637.1 850/cted	154749 06/04/2022	
 3. You can select multiple tests for export at the same time. Simply select and hold each test to highlight these and then select export selected. You can also search and block select searches. See page 30 test history management and searches for more detail. 	August Test August Te	Time 1 11/10 1 0 (21) 20 (21) 20 1 0 (21) 20 1 0 (21) 20 1 0 (21) 20 1 0 (21) 20 1	WBCM - Orange	Las ← C	Pressure 637.1 637.1 637.1 637.1 mbar Selected 3 68	154749 06/04/2022	
 3. You can select multiple tests for export at the same time. Simply select and hold each test to highlight these and then select export selected. You can also search and block select searches. See page 30 test history management and searches for more detail. 		Test History Time 11.5 mbr 0 carl 2022 15:41 0 carl 2022 15:41 0 carl 2022 15:41 0 carl 2022 15:42 0 carl 2022 15:42 0 carl 2022 15:42 0 carl 2022 15:42 0 carl 2022 16:42 0 c	WBCM - Orange Number of Speciment Min Max Std Dev CV CV Mean E Search	Las ← C	Pressure 6 637.1 6	154749 06/04/2022	
 3. You can select multiple tests for export at the same time. Simply select and hold each test to highlight these and then select export selected. You can also search and block select searches. See page 30 test history management and searches for more detail. 	WBCM - Orange PHSO 811	Time 1 0.00000000000000000000000000000000000	WBCM - Orange Number of Speciment Min Max Std Dev CV CV Mean	18.3 °C 2 Pressure 0 0 0 0 mbar 2 Delete 468 of 14.418	Pressure 637.1 637.1 637.1 0.2 637.1 mbar 637.1 0.2 637.1 0.2 637.1	15.47.49 06/04/2022	
 3. You can select multiple tests for export at the same time. Simply select and hold each test to highlight these and then select export selected. You can also search and block select searches. See page 30 test history management and searches for more detail. Backup the raw HydroView files to the USB. Export the test report as a PDF. 	With the second sec	Time 1 111 111 01 011 011 011	WBCM - Orange	L 18.3 °C C	Pressure 637.1 637.1 637.1 mbar Solected 68 68	154749 06/04/2022	
 3. You can select multiple tests for export at the same time. Simply select and hold each test to highlight these and then select export selected. You can also search and block select searches. See page 30 test history management and searches for more detail. Backup the raw HydroView files to the USB. Export the test report as a PDF. 	Arrow Barrow HydroView Name Barrow Result Arrow Res	Time 11.5 mise 0.6 quit 2022 15.41 0 mbar 0.6 quit 2022 15.41 2.7 mbar 0.6 quit 2022 15.41 2.7 mbar 0.6 quit 2022 15.42 2.7 mbar 0.6 quit 2022 15.42 2.7 mbar 0.6 quit 2022 15.42 2.7 mbar 0.6 quit 2022 16.42 2.7 mbar 0.6 quit 2022 16.43 2.7 mbar 0.6 quit 2022 16.43 2.7 mbar 0.6 quit 202 16.43 2.7 mbar 0.6	WBCM - Orange Number of Speciment Min Max Std Dev CV CV Mean	L 18.3 ℃ C 2 Pressure 0 0 0 0 0 0 mbar 2 Delete 84 GB of 14.418	Pressure 637.1 637.1 637.1 637.1 0.0 637.1 6	154749 06/04/2022	
 3. You can select multiple tests for export at the same time. Simply select and hold each test to highlight these and then select export selected. You can also search and block select searches. See page 30 test history management and searches for more detail. Backup to USB Backup the raw HydroView files to the USB. Export the test report as a PDF. Export the results as an excel file. 	August Test August Te	Test History Time 11.1 mba 06 April 2022 15.81 0 Mar 06 April 2022 15.81 0 April 2022 15.81	WBCM - Orange	s 2 Pressure 0 0 0 mbar 2 Delete 44 GB of 14.418	Pressure 637.1 637.1 7 637.1 mbar Selected 68 68	154749 06/04/2022	
 3. You can select multiple tests for export at the same time. Simply select and hold each test to highlight these and then select export selected. You can also search and block select searches. See page 30 test history management and searches for more detail. Backup to USB Backup the raw HydroView files to the USB. Export the test report as a PDF. Export the results as an excel file. Save To PDF Excel 	Wisconstructure Wisconstructure Quick Test Quick Test Quick Test Quick Test Quick Test Quick Test Quick Test Quick Test Quick Test Quick Test Quick Test Quick Test Put ISO 831 Develoct WBCM - Orange Put ISO 831 Corey Mart Put ISO 831	Test History Time 0.211.5 mile 0.211.5 mile 0.6 April 3202.15431 0.6 April 3202.15431 0.6 April 3202.16431 0.7 April 3202.16431	WBCM - Orange Number of Speciment Min Max Sid Dev CV Mean Exercised Free: 11.8	Las - C 2 Pressure 0 0 0 mbar 2 Delete 44 GB of 14.418- 5 5 5 5 5 5 5 5 5 5 5 5 5	Pressure 637.1	154749 06/04/2022	
 3. You can select multiple tests for export at the same time. Simply select and hold each test to highlight these and then select export selected. You can also search and block select searches. See page 30 test history management and searches for more detail. Backup the raw HydroView files to the USB. Export the test report as a PDF. Export the results as an excel file. 	WBCM - Orange PH ISO 811 WBCM - Orange PH ISO 811 WBCM - Orange PH ISO 811	Time 1 0.211.5 mbar 0 0.211.5 mbar 0 0.6 April 2022 1541 2 0.6 April 2022 1541 2 0.6 April 2022 1542 2 0.6 April 2022 1543 2 0.6 April 2022 1544 2 0.6 April 2022 1544 2 0.6 April 2022 1544 2 0.6 April 2023 1544 2	WBCM - Orange Number of Speciment Min Max Std Dev CV CV Mean	Las c 2 Pressure 0 0 0 0 mbar 2 Delete 4 6B of 14.418 5 5 cm To U10	Pressure 637.1 637.1 637.1 7 637.1 7 637.1 7 637.1 7 637.1	154749 06/04/2022	

Test History Management and Searches

1. You may want to search for past results or to	😑 🔿 HydroVie	w	Search Filter	×	16:17:50 06/04/2022
delete old results that are no longer needed in	Name	Result	From 30/03/2022		P R
Hydroview.	Red 234 Quick Test		To 06/04/2022		
	Blue 567		Test Name		
	Green 367				Time
Search	Blue 246		Standard	▼	49.4
Select the search icon to open the search filter	Quick Test Red 324		Test Area Any	V	49.4
beleet the search leon to open the search litter.	Quick Test				
			Apply Filter		49.4
				de minir	sec
	Displaying 5 / 5 Tests - 0 Select	ind			
				×	B
	Select All	Select	Deselect All Search	Delete Selected	Export Selected
2. You can quickly filter and search a variety of	😑 🔿 HydroViev	W	Search Filter	X	16:25:18 06/04/2022
ways.	Name	Result	From 30/03/2022	•	B B
	Red 234		By Date To 06/04/2022	-	
Simply press the search button.	Quick Test Blue 567		Test Name		
Very een filten her	Quick Test Green 367		Altabar Press	n 6 Principa 🍘	Time
You can filter by:	Quick Test Blue 246		Standard		49.4
• Date	Quick Test		May 183	4	49.4
Test name	Quick Test		Test Area Any		~
• Standard			T		
Test area			Apply Filter	er miner	49.4
	Displaying 5 / 5 Tests - 0 Select	ed			Brt.
	Select All	Select	Deselect All Search	Delete Selected	Export Selected
3. To filter by date simply switch on the by date filter	E 🔿 HydroView	w	Search Eilter	~	16:27:47
and select the dates that you would like to filter to	Name	Result			
start from and end at.	Red 234		By Date To 06/04/2022	-	
	Quick Test		Andrew Marker		
Select the ok button to finish your selection.	Quick Test		Test Name		5.000 C
	Quick Test		Standard		49,4
To search by test name, standard or test area	Blue 246 Quick Test		Mail 189		49.4
simply select the field and input the search criteria.	Red 324 Quick Test		Test Area Any		
			T		
			Apply Filter	67	49.4
					sec
	Displaying 5 / 5 Tests - 0 Select	ed			
				×	置
	Select All	Select	Deselect All Search	Delete Selected	Export Selected

4. To apply any filters select the apply filter	😑 🔿 Hydri	View		Search Filter		×	16:29:48 06/04/2022
Apply Filter button.	Name	Result	Ry Data	From 30/03	3/2022 🐨		
Then press ok to view the filtered results.			by Date	To 06/04	4/2022 🛡		
			Test	Name	V		
To remove the filter, return to the search filter menu			Sta	andard	-	Presson ()	1ime 49.4
and then select remove filter.		No Resu	Tes	st Area An			49.4
Remove Filter							
			Remove Filt	er Manari	ок 1967		49.4
							500
	Displaying 0 / 5 Tests - 0	Selected	Y	0			Bet
	Select All	Select	Deselect All	Search	Dolete	Solocted	Export Selected
5. Once a search filter has been applied, you can	😑 🔿 Hydr	oView	Test History		0.0 °C		16:32:42 06/04/2022
select all by pressing the select all button.	Name	Result	Time 🚉	Red 324			
This is useful for exporting all the tests that have been identified by the filter, you may also want to	Red 234 Quick Test Red 324 Quick Test		4.9 mbar 16 December 2021 14:56 1,836.7 mbar 29 July 2021 09:37	Number of Specimo	ens 1		
delete these files if you do simply select delete				Min	Pressure 1.836.7	Pressure 🦚	Time 49.4
selected.				Max	1,836.7		49.4
The system will check if you are sure that you				Std Dev	-14	~~	
would like to delete these files before completing.				CV Mean	1,836.7	- ** - *	49.4
					mbar	mbar	sec
	Displaying 2 / 5 Tests - 2	Selected	T				
	Select All	Deselect	Deselect All	Search	Delete	Selected	Export Selected
6. We recommend backing up and then deleting							
your test history from the instrument at regular							
cluttered.							

Custom Standards Creator

1. From the home screen select the standards	E 🕅 HydroView		Home	17.7 °C	12:25:34 07/04/2022
selector menu.		Wel	come James Hea	I	
		Ō	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~ />	
		Quick Test	Standards	Users	
			\$?	
		Test History	Settings	Help	

2. To create a new standard select create new.	Image: Wight of the second s
Depending on which standard you have selected the 'create new' will make a copy of	P EN ISO 811 2018 (Textiles) Hydrostatic pressure text P GB/T 4744 2013 (Textiles) Testing and Evaluation for V
that particular standard.	P JIS L 10928 Method B (2009) Textiles Select Pressure Rate P JIS L 1092A Method A (2009) Textiles 10 P AATCC 127 Water Resistance Hydrostat
	AATCC 208 Water Resistance: Hydrostat Using a Restraint BS 2823 Hydrostatic Test
	Stop Create New Start
3. Once a copy has been made you can then edit the new standard.	Image: Wight of the standards 17.7 °C 12.25.48 Name EN ISO 811 (Copy 1) 07/04/2022
Select the new copy and then select edit.	Is L 1092A Method A (2009) Textiles (Determination of resistance to water penetration) AATCC 127 Water Resistance Hydroxati Test Areas Allowed 100m2 26cm2 660mm 100cm3
You can't edit pre-set standards.	AATCC 208 Water Resistance Hydrostat Using a Restraint BS 2823 1982 Hydrostatic Test 10 60 cmH ₂ O/min
	PEN 343 Hydrostatic pressure test Protective dothing - Protect PEN 15O 9073 2016 (Textiles.Nonwovers) Hydrostatic pressure test Number of Specimens : 5 Pressure Unit : cmH ₂ O Pressure Rate : cmH ₂ O/min
	NWSP 080.6.R0 Hydrostatic pressure test Water Temperature : 2012/C or 27.22/C EN ISO 811 (Copy 1) 2018 (Testlies) Hydrostatic pressure test Water Temperature : 2012/C or 27.22/C Displaying 10 / 10 Standards ZOTA ZOTA
1. From the edit standards monutes and	Create New Delete Edit Start
4. From the edit standards menu you can rename the standard name and provide detail on the standard.	Image: Wight of the standards Image: Wight of the standards Image: Wight of the standards Test Name EN ISO 811 (Copy 1) Test Areas Details 100cm²
Customise the valid test areas and pressures for your test, as well as the default result unit.	2018 (Textiles) 10; 60; Hydrostatic pressure text Pressure Unit (Determination of resistance to water penetration) Pressure Rate
	Result Type Result Type R
	Rack Kow
5. Select or deselect relevant test areas.	Image: Second
	Details Pressure Rates 2018 (Textiles) Edit Tast Areas
	Hydrostatic pressure (Determination of re 10cm ² 26cm ² 060mm 100cm ² min
	Result Type
	teck Low

6. Set valid test pressures.	= 🔿 HydroView	Edit Star	ndards	17.7 °C	12:26:37 07/04/2022
The following default test fields can be customised:	Test Name Details 2018 (fextiles)	Pressure	Rates (cmH ₂ O/min)	×	•
- Pressure Unit	Hydrostatic pressure test				
- Rate Unit / Time	(Determination of resistan				min 🔍
- Time Unit					
- Number of Specimens required	Result Type				2°C
- Temperature Parameter		New	•	save .	
- Result Type	Back	Save			
7. Example of customer standard.	= 🔿 HydroView	Standa	ards	17.7 °C	12:27:28 07/04/2022
Select start to begin testing with this new standard.	Name =	Vethod A 2009) Textiles Water Resistance: Hydrostat	Lab Test 001 Lab Test Hydrostatic pressure test (Determination of resistance to Test Areas Allowed	water penetration)	
	AATCC 208	Nater Resistance: Hydrostat Jsing a Restraint	Select Pressure Rate	060mm 100cm ²	
	▶ BS 2823	1982 Tydrostatic Test	0.1634 0.9807	1.6344 mbar/sec	
		-lydrostatic pressure test Protective clothing - Protect			
	EN ISO 9073	2016 (Textiles.Nonwovens) Hydrostatic pressure test	Number of Specimens : 5 Pressure Unit : mbar	Pressure Rate : mbar	/sec
	NWSP 080.6.R0	Nonwoven Standard Proced Hydrostatic pressure test	Water Temperature : 20±2	°C or 27±2°C	
	Lab Test 001	ab Test lydrostatic pressure test	Stop Criteria : 🥚 🍋		
	Create New Delete	e Edit	Start		

OPERATION & TESTWISE TOUCH FOR HYDROVIEW

Test Preparation

Basic operation of pneumatic clamp

1. Ensure the 6mm airline is inserted into the inlet for the system pressure. It should be set to a pressure of no more than 10 bar and at a minimum of 6 bar.

At low pressures you may not be able to affectively clamp specimen.

2. Turn on the instrument, the power switch is located on the right-hand side, lower panel of the instrument.







Filling the instrument

1. Identify a vessel of water, a minimum of 2.2 Litres is required to fill the instrument. (The specification of water that should be used will be specified in the standard you are testing to.)

2. Insert 8mm diameter pipe into vessel of water, ensure it remains submerged preventing air being drawn into the system.



3. Ensure your wastewater drawer is installed correctly before filling the instrument.	
4. Turn on the instrument, the power switch is located on the right-hand side, lower panel of the instrument.	
5. Log in as any user type and select quick test.	HydroView User Accounts
	Operator Exit User Logort
6. Check the manual guard and pneumatic clamps are in their upright position. (see page 35 for the basic operation of the pneumatic clamp.)	





Draining the system

It is important to drain the system when leaving the instrument unused for long periods. As many standards use specified grades of water, it is recommended that the water should be drained and changed regularly to maintain the quality of the water being used.

1. Ensure the wastewater drawer is inserted and empty.



Changing Test Area

1. Empty the instrument of water prior to starting
the test area change. See pages 38-39 for details.
Ensure that the clamp and guard is in its up
position with the splash guard removed.

2. To remove the lower test area, lift the lower plate using the grove and pull directly up. This may require some force to overcome the o-ring that holds the plate in place.Any water be left behind in the lower test plate should be dried before fitting the new test plate.	
3. Store the lower plate in a safe place to avoid damaging the test area o-rings and the lower seal o-ring.	
4. Locate the replacement lower clamp, push down until the test area is level and secure. Turn the plate so that the test area size is shown at the front on the instrument.	
5. To remove the upper clamp head, first place the plastic specimen restraint over the lower head. Lower the manual guard, to give access to the top of the upper ring.	
 6. You can then begin to remove each of the four mounting cap head screws. Loosen each of the screws in a sequence, do not remove them one by one. This will prevent the screw threads from being damaged and will also lower the upper clamp head down. Assistance maybe required to hold the upper clamp head from beneath while the screws are removed. 	



Loading a Specimen





TEST SCREEN OVERVIEW



Test Screen – Graph View

Test Screen – Camera View



QUICK TEST PROCEDURE



3.b. Select the pressure unit the results will be	E 🔿 HydroView	Parameters	15:39:02 24/07/2021
displayed in.	Test Area 100cm ²	Pressure U	nit mbar
	Pressure Rate	Pressure Rate Unit	X V sec V
Pressure Unit mbar	Pressure 1	ar bar mmH ₂ O	cmH ₂ O
	Result Type		
	Alert	O mH2O Pa	hPa
Pressure Rate mbar / sec	Auto Stop		
	, Ard		
	-		
	Back		
	들 🔿 HydroView	Parameters	15:39:22 24/07/2021
	Test Area 100cm ²	Pressure U	nit mbar 💙
	Pressure Rate 🟒 1 🔍	(mbar/sec) Pressure Ra	ite mbar 🔍 / sec 🔍
	Pressure 1/2	. Time Unit	sec V
	Result Type		
	Alert	sec min hou)
	Auto Stop 🖌 7,000 mbar		
	-		
3 c. Define a value for the tests rate of rise	Back	Parameters	17.1 °C 15:11:23
	Test Area 100cm ²	Pressure II	24/07/2021
Pressure Rate 1 (mbar/sec)	Pressure Rate 1	Pressure Rate (mbar/sec)	X V sec V
	Pressure 🟒 10,00		
	Result Type 🚺 🕅	1 7 8 9	<i>a</i>
		5344 4 5 6	
	Auto Stop	3066 1 2 3	
	0.16	6333 0	1
	-		
	Back		
		1	
	First Drop:	Fir	st and
		Т "	hird:
First Drop: Provides a mean result on the pressure or time at which the first drop is identified			
across tests specimen.		_	
First and Third: Provides a mean result on the	Third:	Pass	/ Fail: PASS
pressure or time at which the first drop and third			FAIL
drop is identified across test specimen.			
Third: Provides a mean result on the pressure or			
time at which the third drop is identified across tests specimen.			
James Heal ©2022 HydroView	Operator's Guide		Page 45

Pass / Fail: If a drop is detected before a specified pressure or time is met the result will be marked as a failure. If the specimen meets or exceeds the pre-set values, the specimens result will be a pass.		
3.e. Define a value for the test alarm. You can specify it at a time or at a pressure. Alert 5,000 mbar		
3.f. Define a value for the auto stop, this will automatically stop the test at the set time or pressure.		
3.g. Once all test parameters have been set, select	E 🚫 HydroView Parameters	11:23 /2021
back. The machine is now set for testing.	Test Area 100cm ² Pressure Unit mbar	
	Pressure Rate 1 mbar / sec	\blacksquare
	Result Type	
Back		
	Auto Stop 🔟 7,000 mbar 🔍 🖉 🕐 🗙	
	fact.	
4. Before starting testing load a specimen (Pages 41-42) and ensure the guard clamp is in its lower position and the splash guard is inserted. Select clamp to lower the pneumatic.		
5. Once the specimen is clamped start the test by	Comparison of the second	44:44 /2021
	Image: mbar Image: Matrix Constraints mbar mbar / sec sec Parameters Sequence Water Level Lightin	ng
Start	Zoom Test Name Quick Test Specimen 1 Enter Note Capture Type mbar sec	
		8
James Heal ©2022 HydroView	V Operator's Guide Page 46	xt





STANDARD TEST PROCEDURE



3.a. Select the correct test area installed in HydroView.	Image: Second
Test Area 100cm ²	Test Area 100cm² Pressure Unit Dar Pressure Rate (cmH ₄ O/min) Pressure Rate cmH ₄ O / min Test Areas X
Only use the test area highlighted in blue. Other test areas do not conform to the standard selected.	Result Ty 10cm ² 26cm ² Ø60mm 100cm ²
100cm ²	Auto St Allowed Test Areas Highlighted in Blue
	Dack
3.b. Select the pressure unit your test result will be displayed in.	Employee Parameters 17.5 °C 153902 24/07/2021 Test Acco 100cm² Pressure Unit mbar
	Pressure Rate 12 Pressure Rate Unit X / sec
Pressure Unit mbar	Pressure 1/2 mbar bar mmH,O cmH,O
Pressure Rate mbar 🛡 / sec 🛡	Alert Alert Auto Stop
	Reck
	HydroView Parameters 17.5 °C 15.39.22 24/07/2021
	Test Area 100cm ² Pressure Unit mbar
	Pressure
	Result Type
	Alert
	Auto stop 7,000 mbar
	Gente Control of Contr
3.c. Define a value for the tests rate of rise.	E 🚫 HydroView Parameters
Pressure Rate (cmH2O/min)	Test Area 100cm ² Pressure Unit cmH,O
	Pressure Rate (cmH ₂ O/min) Tressure Rate CmH ₂ O Time Unit min
10 60	Result Type
The pressure rates applicable to the standard will be displayed, ensure the correct one is selected for test.	Alert \$,098.6 cmH,0 Auto Stop 7,138 cmH,0
	Rek

3.d. The test result will be automatically defined by the standards selected, this can't be changed. <i>If any deviations from standard are required, a</i> <i>copy of the standard would need to be created in</i> <i>the standards manager before changes can be</i> <i>made.</i>	First Drop: First and Third: Third: Image: Constraint of the second
3.e. Define a value for the test alarm. Time or pressure can be specified. Alert 5,000 mbar	
3.f. Define a value for the auto stop, this will automatically stop the test at the set time or pressure. Auto Stop 7,000 mbar	
3.g. Once all test parameters have been set, select back. The machine is now set for testing.	Image: Non-State State Parameters 17.1 °C 15.1123 24/07/2021 Test Area 100cm² Pressure Unit mbar Pressure Rate 1 (mbar/sec) Pressure Rate mbar Pressure Kate 1 (mbar/sec) Pressure Rate mbar / Pressure Kate 1 (mbar/sec) Pressure Rate mbar / Pressure Kate 1 (mbar/sec) Pressure Rate mbar / Result Type 1 1000 mbar 1000 mbar 1000 mbar Alert 5,000 mbar 100 mbar 100 mbar 100 mbar
4. Before starting testing, load a specimen (pages 41-42) and ensure the guard clamp is in its lower position and the splash guard is inserted. Press clamp to lower the pneumatic.	



Drop Review + Highlight Tool

1. During a test, drops that are identified by users selecting capture or using the manual hand switch will be displayed on the right-hand side of the screen.

When a drop is identified, it will automatically be identified as the first (1^{st}) drop. To change this to an observation select the captured image or the icon in the right-hand column.



2. On the edit capture screen drops can be highlighted on the specimen. To do this identify the drop that should be highlight on the left hand specimen image and hold your finger on the area where you would like to mark the drop.





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HydroView Operator's Guide

3. From the edit capture screen, the order in which (A) HydroView Quick Test 17.8 °C 16:22:39 24/07/2021 the drops were captured can be changed or an 9 Edit Capture X observation assigned. Note Enter Not V Select one of the capture types from the list: Exclude min Capture Type Capture Type 1st 2nd 3rd 📀 01:59 02:03 × 02:12 st 02:32 6 4. Notes can be added to specific results along with exclude the drop or observation. **Enter Note** Note Administrator privileges, provided further editing of the results. For example, the capture can be deleted .. For general users, all captures will remain for review at the end of testing.

CLEANING AND MAINTENANCE

Cleaning Wastewater Drawer





General Cleaning

Do not use harsh abrasive cleaner on the instrument, use water and a nonabrasive cloth to remove any build-up of residue that may form over time.

FAULT FINDING

Fault	Probable Cause	Action		
The equipment does not	No power supply to	Check if plug is connected.		
power on.	equipment.	Check if power is switched on.		
Screen not functioning	Water on screen	Ensure the touch screen is dry and free from water.		
Test Stopped and cannot	Emergency-stop	Ensure the emergency-stop (red button) hasn't been		
be started.	activated	activated, by twisting the button. The touch screen should		
		also indicate that the e-stop is engaged.		
Water pump not filling	Airlock in pump	Omega HydroView Quick Test 23°C 11.05:31 14 March 2022 14 March 2022		
instrument and making a		 ○ 0 1 00:00:00 ○ ○ 		
ioud noise.		mbar Water Level X Water Level Lighting		
		Clamp head without provings is place fill test head to advised water		
		level dependent on specimen type.		
		Air Tight Specimens or sec		
		Air Permeable Specimens		
		200		
		- Raise Lower Manual Fill OK		
		Yeas There (as:)		
		Start Stop Camera Finish Clamp Release Capture Next		

		Us the raise and lower buttons on the water level to free the air lock.
Test results not saving.	Device data capacity full.	See pages 30-31 to back up and delete old data.
System running slow	Device data capacity full.	Power off and restart the instrument. See pages 30-31 to back up and delete old data.

Warning

If the above action does not resolve the problem or the problem is not listed, switch off the unit and call a qualified technician for assistance.

SERVICE & CALIBRATION

James Heal Service & Calibration is a totally comprehensive, worldwide support programme. When you buy instrumentation from us, it is the beginning rather than the end of an association.

Our aim is simple:

To provide precisely the services you need to maintain and protect the value of your investment.

For any enquires you may have regarding your instrument please contact James Heal Service & Calibration by e-mail, phone or fax.

In all communications please quote the serial number of your instrument and the software version number, e.g., 1616/16/1001 and V1.00.

James Heal Service & Calibration contact details: Telephone +44 (0) 1422 366355

Software

Please contact your installer or agent regarding software updates, or if you experience any bugs with your software.

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EU DECLARATION of CONFORMITY

This declaration is issued under the sole responsibility of the manufacturer. We James Heal of Richmond Works, Halifax, HX3 6EP, UK in accordance to the following directive(s): The Low Voltage Directive 2014/35/EU The Electromagnetic Compatibility Directive 2014/30/EU 2006/42/EC The Machinery Directive 2011/65/EU The RoHS Directive hereby declare that: HydroView Equipment: Models: 2136 Description: Hydrostatic Head Tester Serial Number: 2136/22/1000 & subsequent is in conformity with the relevant Union harmonisation legislation, based on the conformity of the following documents: Applied Harmonised Standards: Ref. No Title Edition/date EN 61010-1 Safety requirements for electrical equipment for measurement, 2010+A1:2019 control, and laboratory use. General requirements EN 61326-1 Electromagnetic Compatibility (EMC) equipment for 2013 measurement, control and laboratory use. I hereby declare that the above mentioned product is in conformity with the stated Standards. Authorised Representative John Page Group Managing Director PPT Group UK t/a James Heal PPT GmbH & Co. KG Basler Straße 65 79100 Freiburg Deutschland

DATE: 23rd Feb 2022

Setting the Standard

James H. Heal & Co. Ltd. Halifax England

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UKCA DECLARATION OF CONFORMITY

This declaration is issued under the sole responsibility of the manufacturer.

We James Heal

Richmond Works, Halifax, HX3 6EP, UK of

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Equipment:	HydroView
Model:	2136
Description:	Hydrostatic Head Tester
Serial Number:	2136/21/1000 & subsequent

is in conformity with the relevant UK Statutory Instruments (and their amendments):

2008 No. 1597	The Supply of Machinery (Safety) Regulations 2008
2016 No. 1091	The Electromagnetic Compatibility Regulations 2016
2012 No. 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment Regulations 2012

Relevant designated standards:

<i>Ref. No</i> BS EN 61010-1	Title Safety requirements for electrical equipment for measurement, control, and laboratory use. General requirements	Edition/date 2010+A1:2019
BS EN 61326-1	Electromagnetic Compatibility (EMC) Electrical equipment for measurement, control and laboratory use.	2013

AUTHORISED SIGNATORY

NA Payle.

Neil Pryke

Innovation Director DATE: 1st Nov 2021

James H. Heal & Co. Ltd. Halifax England

www.james-heal.co.uk

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