



PermWare[®] PERMEATION LABORATORY MANAGEMENT SOFTWARE



Improved efficiency and simplified data handling.

One click to access these useful functions:

Instrument details

DASHBOARD									
High Performance Instruments (5)									
Instr Name	Inst Name	Status	Rezero	Cell A	Cell B	Time			
OXTRAN 2/22	ENG # 1 (2/22)	23.0 °C	None	0.0013 cc/day	288.0 cc/(m ² · day)	295.5 cc/(m ² · day)	5/18/2020, 7:06 AM	Online	
PERMATRAN-W 3/34	ENG 3/34 demo-	37.7 °C	None	0.0000 g/day	0.0000 g/(m ² · day)	0.0000 g/(m ² · day)	5/18/2020, 7:05 AM	Online	
PERMATRAN-W 3/34	ENG # 2 (3/34)-2	37.8 °C	None	0.0000 g/day	0.00 g/(m ² · day)	0.0 g/(m ² · day)	5/18/2020, 7:06 AM	Online	
Test Details: Logged Sensors: Temperature: 37.4 °C O ₂ flow: 0.7 Nl/min Nitrogen Input Pressure: 21.0 psig Mass Flow: 0.0 SCCM Barometer: 738 mmHg Instrument Info: Instrument Name: ENG # 2 (3/34) Lab Name: Instrument Number: 2 System Info: Type: PERMATRAN-W 3/34 Model: 1 Serial Number: ENGPW334Glive IP Address: 10.88.22.33 Software Version: 1.0.2.6 Logistics Version: 0.37 Sensor Version: 0.06 Cell Board Version: 0.07 Test Board Version: 1 Windows CE Version: 7.0.3.0									
OXTRAN 2/12 (T)	ENG 2/12 T	23.0 °C	CellB - Testing	0.0000 cc/day	-9016.62 cc/(m ² · day)	4962.78 cc/(m ² · day)	5/18/2020, 7:06 AM	Online	
AQUATRAN 3	ENG # 5 (AQUO)-	37.8 °C	ReZero	0.06953 mg/day	-2.0E-08 g/(cm ² · day)	0.00E+00 g/(cm ² · day)	5/18/2020, 7:06 AM	Online	

Colors indicate instrument status:

- Green In test mode
- Blue Cell clamped, idle
- Gray Cell unclamped, idle
- Red Failure Error
- Yellow Warning Error

Selectable instruments to display

- Instruments
 - High Performance Instruments
 - OX-TRAN 2/22 2.5
 - OX-TRAN 2/22 2.5
 - OX-TRAN 2/12 T
 - OX-TRAN 2/12 T
 - OX-TRAN 2/22
 - High Throughput Instruments
 - OX-TRAN 2/28
 - AQUATRAN 3/38
 - OX-TRAN 2/28
 - AQUATRAN 3/38
 - Package Instruments
 - OX-TRAN 2/40
 - AQUATRAN 3/40
 - OX-TRAN 2/48

Current test details

View Test Details	
CellA	CellB
OXTRAN 2/12/ENG 2/12 RJSN: 001008000000	
Test ID: 230	Sample ID: 9.2666 with cell and comp
Material ID: <no value>	User ID: JE
Oxygen TR: 3918.24 cc/(m ² · day)	Individual Zero: Off
Temperature: 23.0 °C	Sample Area: 50.00 cm ²
Permeant Concentration: 100.00 %	Thickness: 1.00 mil
Compensate: No	Conditioning: Off
Test Gas RH: 0.0 %RH	OTR Adjustment Gain: 1.09439
Carrier Gas RH: 0.0 %RH	OTR Adjustment Date: 2:51 AM 5/14/2020
Barometer: 738 mmHg Active	Test Mode: Continuous
Instrument Rezero: On	Convergence Period: N/A
ReZero Frequency: 2	Convergence Percent: N/A
ReZero Exam Minutes: 45 minutes	Number of Cycles: N/A
	Exam Minutes: 45 minutes
	Flow: 10/10.0 SCCM
	Temp Comp: On
	Turbo Cool: Off
	Sequential Test: Off
	Start Date: 1:00 PM 5/15/2020
	Test Time: 93.50 hours
	Completed Date: <no value>

Instrument remote access via PERM-NET™ Lite



Configurable units for all screens and reports

Settings

Barometric Pressure Unit	Line Pressure Units	Temperature Units
mmHg	psig	Celsius
Area Unit	Thickness Units	
cm ²	mil	
Oxygen TR Units		
cc	meter ²	day
Water TR Units		
g	meter ²	day
Aquatran TR Units		
g	meter ²	day

Instrument error and event log

Errors & Events					
PERMATRAN-W 3/34 ENG # 2 (3/34)-2 SN: ENGPW334Glive					
Type	Date/Time	User ID	Error Code	Details	
Warning	5/11/2020, 7:03 PM	None	53	The Test Gas RH has deviated from the setpoint for an unacceptable period of time.	
Warning	5/13/2020, 8:13 PM	None	1	Power went out at 2:04 PM, 5/14/2020 and came back up at 2:05 PM, 5/14/2020.	
Warning	5/13/2020, 8:20 PM	None	81	The Mass Flow is greater than 3% above or below the setpoint.	
Failure	5/17/2020, 1:48 PM	none	31	The Nitrogen Gas Input Pressure is below the minimum acceptable value. All active tests have been Failed.	

Permeation laboratory management software

PermWare is the master data collection system for all MOCON® permeation instruments. It is designed to simplify data handling and provide an overview dashboard for all MOCON Next Generation (NG) permeation analyzers.

Use PermWare to store, sort and manage all permeation test reports in one location. It provides a dashboard operations screen for all NG instruments, on Windows® 10 computers that allow a safe and secure connection to the instruments on the network.

Instrument SI Num	Instr Name	Thickness	Test ID	Start Date/Time	Material ID	Sample ID	User ID	Test Type	Area	Compensate	Cell	End Date/Time	TG RH	CG RH
001008000000	ENG 2/12 R	1.00 mil	165	2/14/2020, 12:05 PM	Georgia Pacific	sample 2-5	Admin	Auto Test	50.00 cm ²	No	Cell A	2/16/2020, 7:38 AM	0.0 %RH	0.0 %RH
001008000000	ENG 2/12 R	1.00 mil	166	2/14/2020, 12:05 PM	Georgia Pacific	sample 8-4	Admin	Auto Test	50.00 cm ²	No	Cell B	2/15/2020, 4:06 PM	0.0 %RH	0.0 %RH
ENGPW334GLive	ENG # 2 (3/34)	2.30 mil	354	2/14/2020, 1:36 PM	300 counts	red simulate	W.A	Auto Test	4.80 cm ²	100.00 %	Cell A	2/14/2020, 10:07 PM	42.0 %RH	N/A
ENGPW334GLive	ENG # 2 (3/34)	2.30 mil	355	2/14/2020, 1:36 PM	300 counts	red simulate	W.A	Auto Test	4.80 cm ²	100.00 %	Cell B	2/14/2020, 9:37 PM	42.0 %RH	N/A
ENGPW334GLive	ENG # 2 (3/34)	2.30 mil	347	2/13/2020, 2:45 PM	300 counts	red simulate	W.A	Auto Test	4.60 cm ²	100.00 %	Cell B	2/14/2020, 9:38 AM	42.0 %RH	N/A
ENGPW334GLive	ENG # 2 (3/34)	2.30 mil	346	2/13/2020, 2:45 PM	300 counts	red simulate	W.A	Auto Test	4.60 cm ²	100.00 %	Cell A	2/14/2020, 9:38 AM	42.0 %RH	N/A
001008000000	ENG 2/12 R	1.00 mil	163	2/12/2020, 6:32 PM	Georgia Pacific	sample 2-5	Admin	Auto Test	50.00 cm ²	No	Cell A	2/14/2020, 6:21 AM	0.0 %RH	0.0 %RH
001008000000	ENG 2/12 R	1.00 mil	164	2/12/2020, 6:32 PM	Georgia Pacific	sample 8-4	Admin	Auto Test	50.00 cm ²	No	Cell B	2/13/2020, 11:33 PM	0.0 %RH	0.0 %RH
ENGPW334GLive	ENG # 2 (3/34)	2.30 mil	345	2/13/2020, 10:17 AM	300 counts	red simulate	W.A	Auto Test	4.60 cm ²	100.00 %	Cell B	2/13/2020, 2:45 PM	42.0 %RH	N/A
ENGPW334GLive	ENG # 2 (3/34)	2.30 mil	344	2/13/2020, 10:17 AM	300 counts	red simulate	W.A	Auto Test	4.60 cm ²	100.00 %	Cell A	2/13/2020, 2:45 PM	42.0 %RH	N/A
ENGPW334GLive	ENG # 2 (3/34)	2.30 mil	343	2/13/2020, 6:28 AM	300 counts	red simulate	W.A	Auto Test	4.60 cm ²	100.00 %	Cell B	2/13/2020, 10:17 AM	42.0 %RH	N/A
ENGPW334GLive	ENG # 2 (3/34)	2.30 mil	342	2/13/2020, 6:28 AM	300 counts	red simulate	W.A	Auto Test	4.60 cm ²	100.00 %	Cell A	2/13/2020, 10:16 AM	42.0 %RH	N/A
ENGPW334GLive	ENG # 2 (3/34)	1.00 mil	340	2/12/2020, 1:01 PM	300 counts	red simulate	W.A	Auto Test	50.00 cm ²	100.00 %	Cell A	2/12/2020, 11:07 PM	42.0 %RH	N/A

Test history of all MOCON analyzers on one screen

- Configurable columns with filters
- Simple to sort by any field or criteria
- Overview of historical test results
- Export, save and print functions

High Performance Instruments (3)

Instr Name	Status	Rezero	Cell A	Cell B	Time
OXTRAN 2/12 ENG 2/12 R	23.0 °C CellA - Testing	0.0000 cc/day	1183.32 cc/(m ² · day)	3633.66 cc/(m ² · day)	5/18/2020, 7:06 AM
OXTRAN 2/22 ENG # 1 (2/22)	23.0 °C None	0.0013 cc/day	288.0 cc/(m ² · day)	295.5 cc/(m ² · day)	5/18/2020, 7:06 AM
PERMATRAN-W 3/34 ENG # 2 (3/34)-2	37.8 °C None	0.0000 g/day	0.00 g/(m ² · day)	0.0 g/(m ² · day)	5/18/2020, 7:06 AM

High Throughput Instruments (1)

Instr Name	Status	Rezero	Cell A1	Cell A2	Cell B1	Cell B2	Time
OXTRAN 2/28 ENGPW2/28-	23.0 °C None	0.0000 cc/day	70.20 cc/(m ² · day)	69.22 cc/(m ² · day)	72.90 cc/(m ² · day)	72.10 cc/(m ² · day)	5/18/2020, 7:06 AM

Package Instruments

Instr Name	Status	Rezero	Cell A	Cell B	Cell C	Cell D	Time

Status of all NG MOCON analyzers on one screen

- Color codes identify instrument status
- Displays latest test result for each cell
- Includes vital instrument and testing information

Permeation Testing Control System

Master data collection system for all MOCON permeation instruments

- Store, sort and view all permeation test reports in one location
- Reliable software
 - Operates on secure and up-to-date Windows® 10
 - Utilises Microsoft SQL Server for repository and management
- Allows connection to networks via Isolated VLAN
- Instrument status screen and test history access from remote PC through network



Overview

- Operating System: Windows 10 Pro
- Data Management System: Microsoft SQL Server
- Connections:
 - NG Instruments – 1 to 100 via Ethernet LAN, limited by computer & connection capabilities
 - Legacy Instruments – 10 per WinPerm™ computer, unlimited WinPerm computers
 - Printers – Multiple via Ethernet LAN or direct USB
 - Networks – Standalone LAN to connect instruments to PC, or optional connection to a domain in an Isolated VLAN
- Dashboard Access: Any NG model with latest software
- Computer Requirements:
 - Processor I5 @ 2.2 GHz and up
 - RAM 32 GB and up
 - HDD 1 TB and up
 - Dual network card configuration for isolated VLAN
 - Windows 10 Pro (requires fresh installation - unmodified)
- Software Included:
 - SQL Express (included)
 - .Net framework, .Net core
 - Microsoft SQL Server Management Studio
- Useful Software Applications:
 - Microsoft Office® to view or print CSV or XLS files
 - PDF Tool to print reports
 - TeamViewer® for remote AMETEK MOCON service support

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