

# EMOS® MONITORING

## An Eye on Everything

- Real-time monitoring of all electrolyser data including:
  - Individual cell voltages
  - Rectifier current
  - Process parameters
  - Calculated normalized voltages
- Display of alarm status
- Access historical data
- Export to Microsoft Excel
- Customizable
- Expandable
- OPC compliant



## Overview

*Especially designed for the chlor-alkali and chlorate industry, EMOS® (Electrolyser Management, Optimization and Safety) Monitoring is an application designed to monitor and manage process data obtained from the EMOS® SIL2 Safety System and its related tools.*

*Using these tools can help protect against :*

- Anode coating loss
- Cathode coating loss
- Electrode passivation
- Membrane poisoning
- Insufficient electrolyte feed
- Cell temperature control failure
- Electrolyte concentration control failure
- Differential pressure out of range
- Cell leakage
- Membrane pinholes, tears and blisters
- Short circuits

*The convenient graphical interface, shown on both the EMOS® Server and the EMOS® Client stations, is simple to read with events easily identified, giving the operators the opportunity to react and adjust operations as needed.*

*EMOS® Monitoring has been optimized to process and display very large amounts of data in real-time. It can display the information provided by the EMOS® SIL2 Safety System in a selection of different views whether it's plant overview, raw data, alarms, historical trending or event reporting.*



EMOS® Monitoring

## System Requirements

System Requirements – EMOS® Server	
Operating System:	Windows 7 pro 32-bit/64-bit/ Windows Server 2008 Windows 8.1 pro 32-bit/64 bit/ Windows Server 2012
CPU:	Xeon processor (minimum)
RAM:	16 GB (minimum)
Hard Disk Space:	(2) 500GB Hard Drives mounted in RAID-1
--	DVD RW
--	(4) 100/1000 Network Ports

System Requirements – EMOS® Client	
Operating System:	Windows 7 Pro 64 bit Windows 10 Pro 64 bit
CPU:	Intel i5 (minimum)
RAM:	8 GB (minimum)
Hard Disk Space:	(1) 500GB Hard Drives
--	DVD RW
--	(2) 100/1000 Network Ports
--	Screen resolution of 1920 x 1080 (or better)

## Available Expansion Modules

Part Number	Description
SW701	EMOS® Pinhole Detector
SW500	EMOS® Early Detection Engine
SWTEM	EMOS® Single Cell Temperature Evaluator

## Ordering Information

Part Number	Description
SWSTD	EMOS® Safety Software Package (including EMOS® Monitoring)
SP011	EMOS® Monitoring additional license

\* R2 will pre-configure the EMOS Monitoring layout according to customer requirements.

## Additional Information

EMOS® Monitoring is part of R2's Safety Software Package. Contact us for more information.