



## Electrochemical workstation

## Electrolyser Test Station

## Fuel cell Test station



# AEM/AEL ELECTROLYSER TEST STATION



- RSI make **AEM/AEL ELECTROLYSER TEST BENCH** is fully designed and integrated with software controlled (**Made in India**) to meet complex research needs of the researchers.
- AEM electrolyser test bench is focussed to provide modularity in design and also complies with international standards from every aspect.
- RSI make AEM electrolyser test bench is mainly used for research purposes. The researchers can use this test bench to perform various experiments and tests, such as measuring the current-voltage characteristics, assessing the durability and lifetime of the membrane and electrodes, and optimizing operating conditions for maximum hydrogen production.
- Send us your requirements and we will prepare a detailed offer for your turn-key project.



## SYSTEM SPECIFICATIONS

Model No	<b>RSI-AEM-AEL-1850W</b>
Type	<b>AEM</b> (Anion Exchange Membrane)
Volume Of Electrolytic tank	1500 mL
Active Area Of The Cell	3 X 3 cm Or High
Weight	600 Kg Approx. (*Subjected to the model )
Dimension (L x BX H)	1000 X 900 X 900 mm (*Subjected to the model )
Storage Method	Tedlar bag
Safety Features	Emergency stop

## PUMP SPECIFICATIONS

Electrolyte flow	20 mL to 500 mL/min
Speed variation facility	✓
Set Flow/ Volume and time	✓
Forward and reverse control	✓
Manual / Software Controlled	Customer Requirement

## POWER SUPPLY

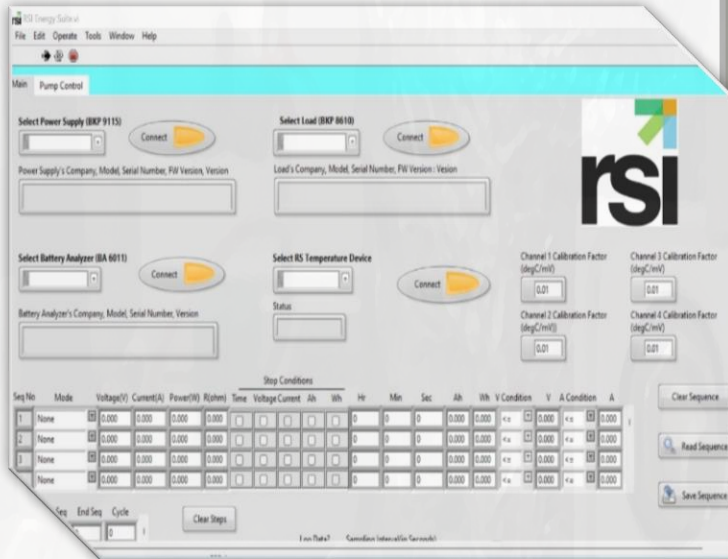
Max Voltage	30 V
Max Current	150 A
Power	1850 W
Techniques	OCP,CC,CV,CC-CV
Voltage sense	✓
Manual / Software controlled	Customer Requirement

## MASS FLOW METER (OPTIONAL)

Flow rate	0 - 500 mL / min
Software Monitor	✓

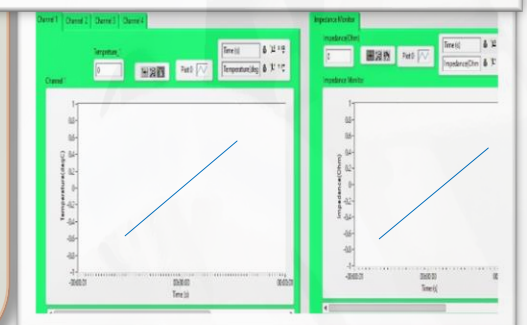
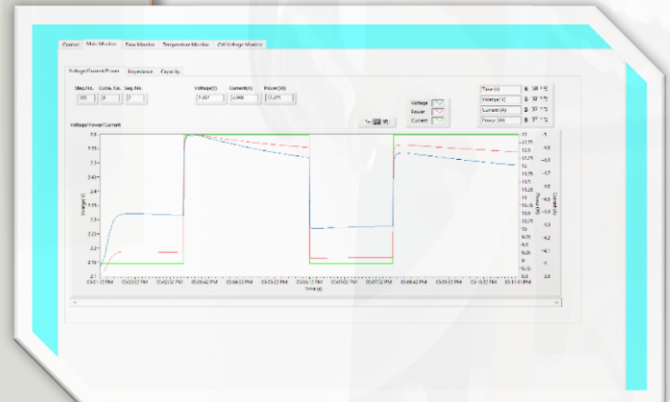
OPTIONAL FUNCTIONS	
Conductivity Measurement	✓
Automatic Electrolyte Filling	✓
Line Heating And Monitoring	✓
Tank Heating And Monitoring	✓
Cell Heating And Monitoring	✓
Electrolyte Tank Level Sensing & Maintaining	✓
O2 Flow Measurement	✓
H2 Flow Measurement	✓
Back Pressure Controlling	✓
8 Channel AUX Voltage Monitoring	✓
8 Channel AUX Temperature Monitoring	✓
Gas Filtration (Single Stage Or Dual Stage)	✓
Hydrogen Leakage Detector	✓
SYSTEM REQUIREMENT	
Processor	Intel Core i5 or i7
Memory (RAM)	16 GB or higher
Storage	512 GB SSD or larger
Graphics	Dedicated graphics card with at least 4 GB VRAM (NVIDIA GeForce or AMD Radeon)
CPU Operating System	Windows 11





- Techniques:  
OCP, Charge
- Sequencing Of  
Techniques
- Loop sequences into  
multiple cycles
- Computer-controlled  
peristaltic pump  
(optional)

- Log all data into excel format
- Real time Graphical  
Representation
- Export specific graph data
- Capacity Monitor  
(Ah Vs Time Vs Wh)
- Voltage Monitor  
(Voltage Vs Time)
- Temperature Monitor(channel  
1-8)
- Hydrogen Production Monitor  
(mL/min Vs Time)



# THANK YOU !



Please consult with our technical team to meet all your customised requirements



## RESEARCH SUPPORTERS INDIA

ISO 9001: 2015

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