



RESEARCH SUPPORTRS INDIA



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	RSI-AEM-AEL-300W
Type	AEM (Anion Exchange Membrane)
Volume Of Electrolytic tank	1000 mL
Active Area Of The Cell	3 X 3 cm Or 5x5
Weight	400 Kg Approx. (*Subjected to the model)
Dimension (L x BX H)	800 X 700 X700mm (*Subjected to the model)
Storage Method	Tedlar bag
Safety Features	Emergency stop

PUMP SPECIFICATIONS

Electrolyte flow	20 mL to 250 mL/min
Speed variation facility	✓
Set Flow/ Volume and time	✓
Forward and reverse control	✓
Manual / Software Controlled	Customer Requirement

POWER SUPPLY

Max Voltage	10V
Max Current	30 A
Power	300 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	✓

ADDITIONAL FUNCTIONS

Conductivity Measurement

X

Automatic Electrolyte Filling

X

Line Heating And Monitoring

✓

Tank Heating And Monitoring

✓

Cell Heating And Monitoring

✓

Electrolyte Tank Level Sensing & Maintaining

X

O2 Flow Measurement

X

H2 Flow Measurement

✓

Back Pressure Controlling

✓

8 Channel AUX Voltage Monitoring

X

8 Channel AUX Temperature Monitoring

X

Gas Filtration (Single Stage)

✓

Hydrogen Leakage Detector

X

SYSTEM REQUIREMENT

Processor

Intel Core i5 or i7

Memory (RAM)

16 GB or higher

Storage

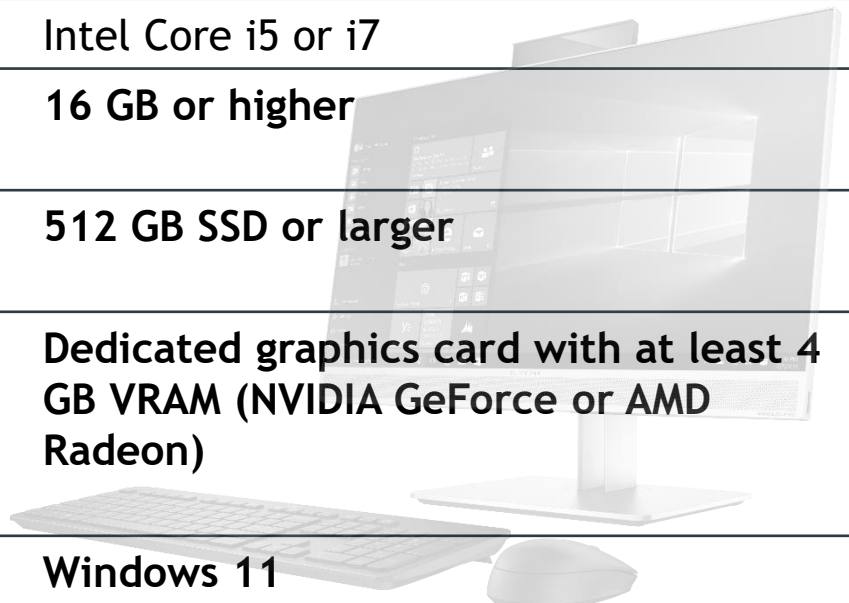
512 GB SSD or larger

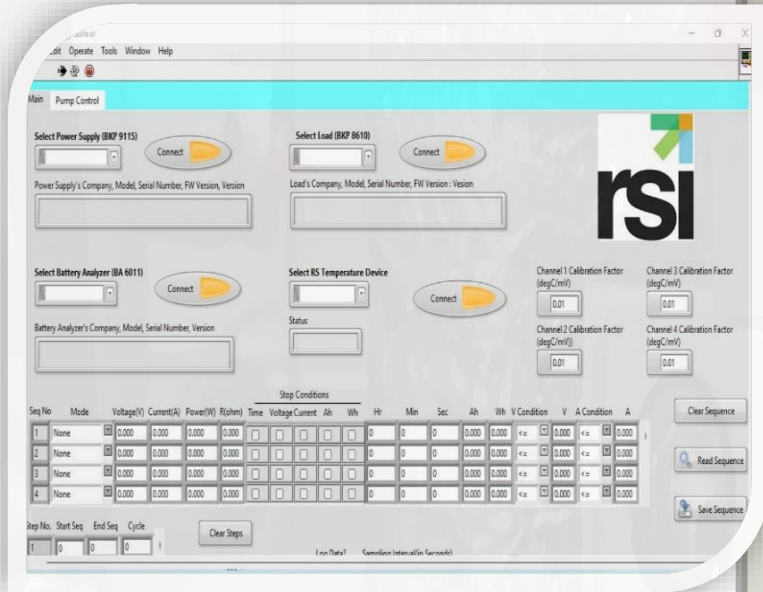
Graphics

Dedicated graphics card with at least 4 GB VRAM (NVIDIA GeForce or AMD Radeon)

CPU Operating System

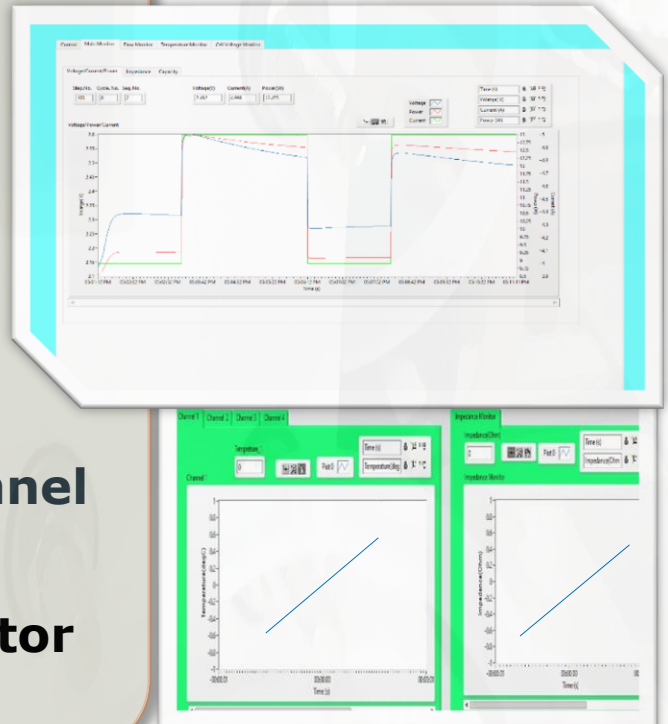
Windows 11





- **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



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ISO 9001: 2015

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