



- RSI make **PEM ELECTROLYSER TEST BENCH** is fully designed and integrated with software controlled (**Made in India**) to meet complex research needs of the researchers.
- PEM electrolyser test bench is focussed to provide modularity in design and also complies with international standards from every aspect.
- RSI make PEM 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

| | |
|-----------------------------|--|
| Type | PEM (Proton Exchange Membrane) |
| Volume Of Electrolytic tank | 1000 mL |
| Active Area Of The Cell | 3 X 3 cm Or High |
| Weight | 350 Kg Approx. |
| Dimension (l x b X h) | 900 X 750 X 995 mm (*Subjected to the model) |
| Storage Method | Tedlar bag |
| Safety Features | Emergency stop , Hydrogen sensor (Optional) |

PUMP SPECIFICATIONS

| | |
|------------------------------|----------------------|
| Electrolyte flow | 50 mL to 500 mL/min |
| Speed variation facility | ✓ |
| Set Flow/ Volume and time | ✓ |
| Forward and reverse control | ✓ |
| Manual / Software Controlled | Customer Requirement |

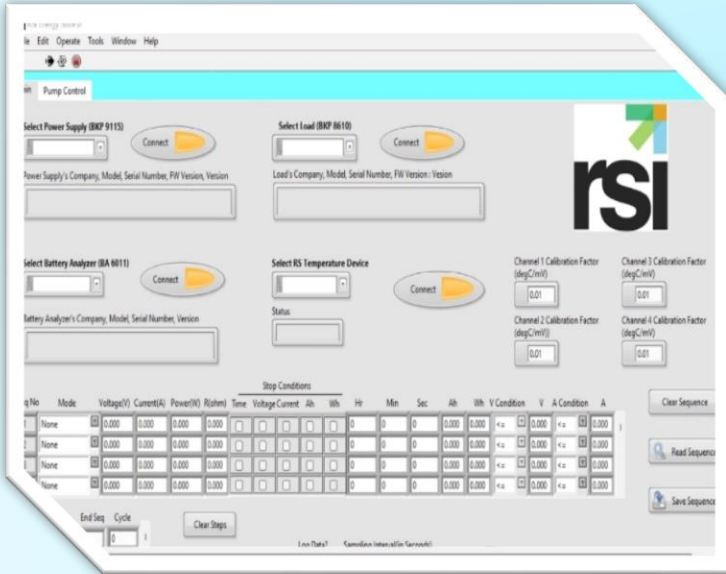
POWER SUPPLY

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

MASS FLOW METER (OPTIONAL)

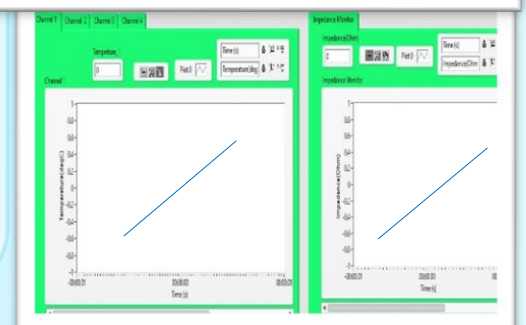
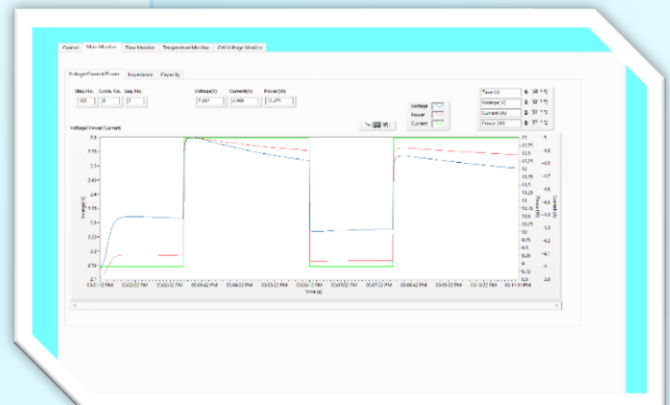
| | |
|------------------|------------------|
| Flow rate | 0 – 500 mL / min |
| Software Monitor | ✓ |

| 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:
CC, CV, CC-CV
- 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

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