

RSI- ELECTROLYZER TEST



RSI proud to launch “Electrolyzer Test Kit-01” for Hydrogen studies,

- ❏ Electrolysis is a promising option for carbon-free hydrogen production from renewable and nuclear resources. Electrolysis is the process of using electricity to split water into hydrogen and oxygen. This reaction takes place in a unit called an electrolyzer.
- ❏ Hydrogen is the most efficient energy carrier. Hydrogen can be obtained from different sources of raw materials including water. Among many hydrogen production methods, eco-friendly and high purity of hydrogen can be obtained by water electrolysis. However, in terms of sustainability and environmental impact, PEM water electrolysis was considered as most promising techniques for high pure efficient hydrogen production from renewable energy sources and emits only oxygen as by product without any carbon emissions.
- ❏ Moreover, the produced Hydrogen (H_2) and Oxygen (O_2) directly used for fuel cell and industrial applications. However, overall water splitting resulting in only 4% of global industrial hydrogen being produced by electrolysis of water, mainly due to the economic issues. Nowadays, increased the desire production of green hydrogen has increased the interest on PEM water electrolysis.

SPECIFICATIONS	
Voltage	1.8 TO 3.5V
Constant Current Supply	10A max
Electrode Area	35 mm X 35 mm or 40 mm X 50 mm
H2 Production Rate	250mL max
WATER requirement	PURE water / De-Ionised water
CORE component	PEM type
H2 Purity	99.99%
Peristaltic Pump	FORWARD / REVERSE selection
Pump Sped Control	rpm selection to control the rotation speed
Moisture Trap	Max pressure 5 BAR,
For any queries contact our technical team**	



ELECTROLYZER

SCAN TO SEE THE DEMO



In the demo video you can see the demonstration of hydrogen generation and testing with PEM fuel cell to generate current,

In this method, we are applying 1.8 V to 3.5 V with constant current 5-10 A depends on the surface area to the PEM cell. Hydrogen is being produced due to electrolysis of water and produced output is moisture trapped. Hence its stored in the Tedler bag.

FOR INFORMATION:



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Fuel cell Test Station