

Fuel Cell Leak Rate Test Systems

The **LRM** is a portable, battery powered leak rate monitor. The operator has only to adjust the precision regulator to the required test pressure, and read the resultant leakage rate. The use of thermal mass flow meters means that temperature and pressure corrections are not required. Other LRM variations feature on-board pumps for negative pressure leak testing.



The **SLM100** (pictured left) is a simple, manually operated system built specifically for leak testing PEM fuel cell stacks for leaks or membrane permeability using Helium as the test gas.



The **ILITS** (below) turns the test on its head, controlling the applied leakage rate, and measuring the resultant pressure required to obtain the expected leak rate.

The **DCS100** (not shown) is a system built specifically to quantify diffusive characteristics of different membrane materials. It controls minute differential pressures across the sample, but exposes each side of the sample to a different gas type. The output is then applied to a gas analyser to obtain results.



Test pressure and leak rate measurement abilities can be tailored to suit different fuel cell types, stack sizes and membrane materials. Additionally, variations including remote interfacing options are available to automate the testing process. Call one of our Applications Engineers to discuss your requirements in detail.

Internationally recognised ISO/IEC17025 calibration certificates supplied as a standard



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Chell Instruments Ltd
Folgate House
Folgate Road
North Walsham
Norfolk NR28 0AJ
England

Tel.: +44 (0)1692 500555
Fax: +44 (0)1692 500088

E-mail : sales@chell.co.uk

Web site : www.chell.co.uk