Newtons4th Ltd
office@newtons4th.com
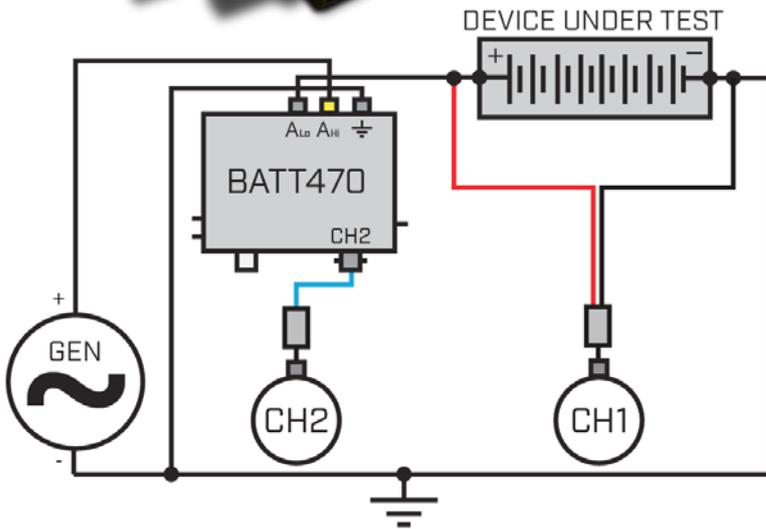www.newtons4th.com

Battery Cell Impedance Measurement (EIS)

PSM3750 FRA + BATT470m
Electrochemical Impedance Analysis Package

ESF10m

BATT470m

The BATT470m Electrochemical Impedance Analysis Package provides a simple to use, wideband impedance analysis solution for the electrochemical market. The BATT470m, coupled with the PSM3750 Frequency Response Analyzer provides impedance measurement of batteries/cells up to 100V DC. With a frequency range of 100mHz to 1MHz, equivalent circuit analysis as well as wideband impedance measurement is quick and simple using PSMComm2 software.
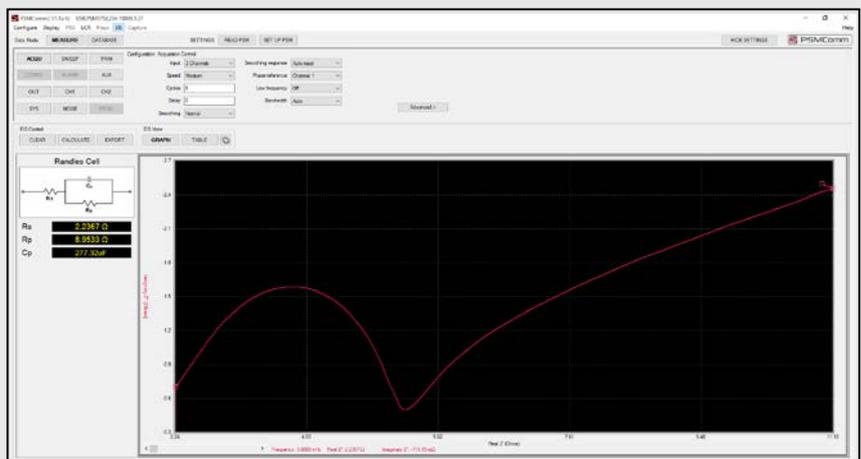
Model	Nominal Resistance	Phase Error	Continuous Current	Voltage Rating	Input Connector
BATT470m	470mΩ ± 0.1%	0.1° / kHz	1Arms	100V DC	4mm, BNC

Shunt nominal inductance: < 1nH

CH2 connector: Safety BNC – Non isolated with inverted polarity (Output is at line potential therefore safety BNC to BNC leads must be used for instrument connection)

Protection rating   100V Cat I

EIS Package Consists of:
    PSM3750
    Batt470m
    2x ESF10m

PSMComm2 - EIS Mode (Randles Cell equivalent circuit modelling)