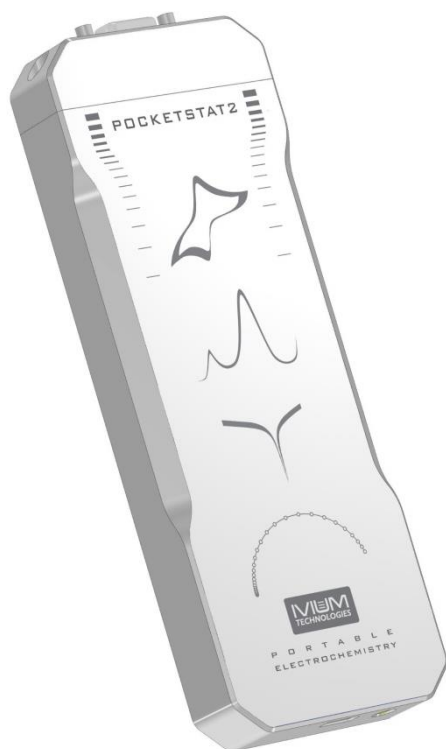


pocketSTAT2

For corrosion measurements



Suitable for
field measurements
and lab/bench testing

System performance

Current compliance	$\pm 30\text{mA}$
Maximum output voltage	$\pm 10\text{V}$
Electrode connections	4; WE, CE, RE, S (and GND)
Potentiostat bandwidth	$>500\text{kHz}$
Stability settings	High Speed, Standard and High Stability
Programmable response filter	1MHz, 100kHz, 10kHz, 1kHz, 10Hz
Signal acquisition	Dual channel 18bit ADC, 300,000 samples/s

Potentiostat

Applied potential range	$\pm 10\text{V}$, 0.08mV res.
Applied potential accuracy	0.2%, or 2mV
Current ranges	$\pm 100\text{pA}$ to $\pm 10\text{mA}$ in 9 decades
Measured current resolution	0.003% of current range, minimum 3fA
Measured current accuracy	0.2%

Galvanostat

Applied current resolution	0.008% of applied current range
Applied current accuracy	0.2%
Potential ranges	$\pm 1\text{mV}$, $\pm 4\text{mV}$, $\pm 10\text{mV}$, $\pm 40\text{mV}$, $\pm 0.1\text{V}$, $\pm 0.4\text{V}$, $\pm 1\text{V}$, $\pm 4\text{V}$, $\pm 10\text{V}$
Measured potential resolution	0.0008% of potential range, minimum 7nV
Measured potential accuracy	0.2% or 2mV

Impedance analyser

Frequency range	10 μHz to 1MHz
Amplitude	0.15mV to 2.0V, or 0.03% to 100% of current range
DC offset	16bit DC offset subtraction and 2 DC-decoupling filters

Electrometer

Input impedance	$>1000\text{Gohm}$ // $<10\text{pF}$
Input bias current	$<20\text{pA}$
Bandwidth	$>5\text{MHz}$

Environment

Power requirements	Via USB
Interfacing	USB
Size (w x d x h)	16 x 6.7 x 1.9cm
Weight	300g
PC requirements	Windows 8/10, with free USB port