



Defining the standard for screen-printed sensor interfaces.

Electrochemical sensor and biosensor applications have never been this easy.

Super-compact series potentiostats are the smallest electrochemistry, interface on the market, just slightly larger than one cent. These super small and affordable instruments enable you to develop applications tailored for your research needs.

IMPROVED SPECIFICATIONS

Cutting Edge Technology



1

pA

Signal Resolution



40

mA

Measured Current



10

µV

Bias Resolution



256

Multiplexed Instruments



GX100 SERIES EQUIPMENTS



GM100 SERIES MODULES

ADVANCED CONTROL AND ANALYSIS SOFTWARE

GalvanoPlot SUITE

Run and analyse multiple devices simultaneously from same screen.
Spool experiments to take periodic measurements or customise protocols.
Analyse voltammetry experiments automatically or manually.
Activate integrated low pass filter for noise filtering.
Export experiments for MS Excel or as image with customizations.
Any combination of GalvanoPlot GX100 and GX200 Series instruments could be run at the same screen.
Upgrade specifications or extend trial life of device remotely.



ANDROID INTERFACE

GalvanoPlot TOUCH

Turn your mobile device into an electrochemistry station.
Run experiments; see results and share by simply touching your favourite Android mobile phone or tablet.
Best for GX100 Series devices but also fully compatible with GX200.



Model	GX112	GX101	GX103	GX104	GX105	GX185
Specification	Bi-Potentiostat / EIS Analyser	Potentiostat	Potentiostat	Bi-Potentiostat	Potentiostat	Multi-Potentiostat
Scan Range	±2 V	2 Values in ±1,65V Range	±2 V	±2 V	±3 V	±2 V
Best Compliance Voltage	-3 V; +2,1 V	±1,65 V	-3,75 V; +3 V	-3,75 V; +3 V	±3,9 V	-3,75 V; +3 V
Best Maximum Current	1,5 mA	20 mA	20 mA	20 mA	20 mA	20 mA
Applied DC Voltage Resolution	537 µV	-	1 mV	1 mV	1208 µV	1 mV
Current Ranges	8 ranges + autorange (1,5 mA; 300 µA; 30 µA; 15 µA; 7,5 µA; 1,8 µA; 70 nA; 10 nA)	Single range (20 mA - 15 nA; customisable)	(8 ranges + autorange (20 mA; 5mA; 1 mA; 100 µA; 10 µA; 1 µA; 100 nA; 20 nA)	5 ranges + autorange (12,5 mA; 1 mA; 75 µA; 5 µA; 250 nA)	Single range (20 mA - 20 nA, customisable)	Single range (20 mA - 20 nA, customisable)
Current Resolution (of max value in each range)	0,002 %	0,02 %	0,02 %	0,02 %	0,02 %	0,02 %
Sampling Rate	1000 SPS	1000 SPS	1000 SPS	1000 SPS	1000 SPS	1000 SPS
Best Current Resolution @1.000SPS	120 pA	3,7 pA - 4,8 nA	1 pA	1 pA	1 pA - 1,5 nA	1 pA - 1,5 nA
Noise Level @1.000SPS	-60 dB	-60 dB	-60 dB	-60 dB	-60 dB	-60 dB
Minimum Noise @1.000SPS	15 nA	12 nA	1,8 nA	1,8 nA	1,8 nA	1,8 nA
Best Current Resolution @1SPS	4 pA	3,7 pA - 4,8 nA	31 fA	31 fA	31 fA - 47 pA	31 fA - 47 pA
Noise Level @1SPS	-144 dB	-60 dB	-110 dB	-110 dB	-110 dB	-110 dB
Minimum Noise @1SPS	30 pA	12 nA	20 pA	20 pA	20 pA	20 pA
Electrode Connections	WE1, WE2, RE, CE	WE1, RE, CE	WE1, RE, CE	WE1, WE2 ,RE, CE	WE1, RE, CE	WE1, WE2, WE3, WE4, WE5, WE6, WE7, WE8, RE, CE
DC Methods	CV, DPV, SWV, LSV, NPV, CA, MA	CA, MA	CV, DPV, SWV, LSV, NPV, CA, MA	CV, DPV, SWV, LSV, NPV, CA, MA	CV, DPV, SWV, LSV, NPV, CA, MA	CV, DPV, SWV, LSV, NPV, CA, MA
Galvanostatic Measurement Methods	PSA	-	PSA	PSA	PSA	PSA
Open Circuit Potential	±1,6 V	-	±2 V	-	-	-
Bi-Potentiostat WE2 Mode	Duplicate, Bias to GND, Bias to WE1	-	-	Duplicate, Bias to GND, Bias to WE1	-	-
Bi-Potentiostat Range	-1,1 V; +0,9 V ±ΔE	-	-	±2 V ±ΔE	-	-
Impedance Measurement Methods	EIS, IMP	-	-	-	-	-
Impedance Measurement Frequency Range	15 mHz - 200 KHz	-	-	-	-	-
Power (Max)	150 mW	470 mW	470 mW	470 mW	470 mW	470 mW
Host Interface	USB Type C	USB Type C	USB Type C	USB Type C	USB Type C	USB Type C
Compatibility	PC, Android	PC, Android	PC, Android	PC, Android	PC, Android	PC, Android
Size (LxWxH)	39 x 18 x 9 mm³	39 x 18 x 9 mm³	39 x 18 x 9 mm³	39 x 18 x 9 mm³	39 x 18 x 9 mm³	50 x 18 x 12 mm³
Weight	6 gr	6 gr	6 gr	6 gr	6 gr	18 gr