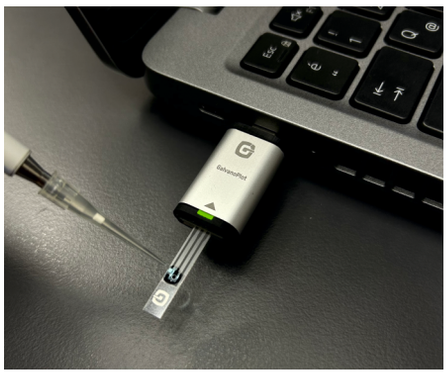
SUPER-COMPACT POTENTIOSTATS

GalvanoPlot

GalvanoPlot is a trade mark of SolarBiotec. Solar Biyoteknoloji Ltd. Please reach us for further questions about our products.



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.

GalvanoPlot

OFF-THE- SHELF POTENTIOSTAT SOLUTIONS

Ordering
sales@galvanoplot.com

	GX111	GX112	GX113	GX121	GX122	GX101	GX103	GX104	GX105	GX165
Specification	Bi-Potentiostat / EIS Analyser	Bi-Potentiostat / EIS Analyser	Potentiostat / EIS Analyser	Bi-Potentiostat / EIS Analyser	Bi-Potentiostat / EIS Analyser	Potentiostat	Potentiostat	Bi-Potentiostat	Potentiostat	Multi-Potentiostat
Scan Range	±2 V	±2 V	±2,5 V	±2 V	±2 V	2 Value in ±1,65V Range	±2 V	±2 V	±3 V	+0.45V
Best Compliance Voltage	-3 V; +2,1 V	-3 V; +2,1 V	±3,5 V	-4,5 V; +7 V	-4,5 V; +7 V	±1,65 V	-3,75 V; +3 V	-3,75 V; +3 V	±3,9 V	-2.7V; +2 V
Best Maximum Current	1,5 mA	1,5 mA	30 mA	1,5 mA	1,5 mA	20 mA	20 mA	20 mA	20 mA	100nA
Applied DC Voltage Resolution	537 µV	537 µV	1208 µV	537 µV	537 µV	-	1 mV	1 mV	1208 µV	-
Current Ranges	8 ranges + autorange (1,5mA; 300µA; 30µA; 15µA; 7,5µA; 1,8µA; 70nA; 10nA)	8 ranges + autorange (1,5mA; 300µA; 30µA; 15µA; 7,5µA; 1,8µA; 70nA; 10nA)	7 ranges + autorange (30 mA, 10 mA, 1 mA, 100 µA, 10 µA, 1 µA, 100 nA)	8 ranges + autorange (1,5mA; 300µA; 30µA; 15µA; 7,5µA; 1,8µA; 70nA; 10nA)	8 ranges + autorange (1,5mA; 300µA; 30µA; 15µA; 7,5µA; 1,8µA; 70nA; 10nA)	Single range (20 mA - 15 nA, customisable)	(8 ranges + autorange (20 mA; 5mA; 1mA; 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 (100 nA)
Current Resolution (of max value in each range)	0,002%	0,002%	0,02%	0,002%	0,002%	0,02%	0,02%	0,02%	0,02%	0,002%
Sampling Rate	1000 SPS	1000 SPS	1000 SPS	1000 SPS	1000 SPS	1000 SPS	1000 SPS	1000 SPS	1000 SPS	1000 SPS
Best Current Resolution @1.000SPS	346 pA	346 pA	6,7 pA	346 pA	346 pA	3,7 pA - 4,8 nA	1 pA	1 pA	1 pA - 1,5 nA	1,56 pA
Noise Level @1.000SPS	-52 dB	-52 dB	-60 dB	-52 dB	-52 dB	- 60 dB	-60 dB	-60 dB	-60 dB	-
Minimum Noise @1.000SPS	2.2 nA	2.2 nA	12 nA	2.2 nA	2.2 nA	12 nA	1,8 nA	1,8 nA	1,8 nA	-
Best Current Resolution @1SPS	13 pA	13 pA	163 fA	13 pA	13 pA	3,7 pA - 4,8 nA	31 fA	31 fA	31 fA - 47 pA	1,56 pA
Noise Level @1SPS	-103 dB	-103 dB	-110 dB	-103 dB	-103 dB	- 60 dB	-110 dB	-110 dB	-110 dB	-86 dB
Minimum Noise @1SPS	13 pA	13 pA	20 pA	13 pA	13 pA	12 nA	20 pA	20 pA	20 pA	<5pA
Electrode Connections	WE1, WE2, RE, CE	WE1, WE2, RE, CE	WE1, RE, CE	WE1, WE2, RE, CE	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, NP, CA, MA	CV, DPV, SWV, LSV, NP, CA, MA	CV, DPV, SWV, LSV, NP, CA, MA	CV, DPV, SWV, LSV, NP, CA, MA	CV, DPV, SWV, LSV, NP, 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	CA
Galvanostatic Measurement Methods	PSA	PSA	PSA	PSA	PSA	-	PSA	PSA	PSA	-
Open Circuit Potential	-	±1,6 V	±2.45 V	-	±1,6 V	-	±2 V	-	-	-
Bi-Potentiostat WE2 Mode	Duplicate, Bias to GND, Bias to WE1	Duplicate, Bias to GND, Bias to WE1	-	Duplicate, Bias to GND, Bias to WE1	Duplicate, Bias to GND, Bias to WE1	-	-	Duplicate, Bias to GND, Bias to WE1	-	-
Bi-Potentiostat Range	-1,1 V; +0,9 V ±ΔE	-1,1 V; +0,9 V ±ΔE	-	-1,1 V; +0,9 V ±ΔE	-1,1 V; +0,9 V ±ΔE	-	-	±2 V ±ΔE	-	-
Impedance Measurement Methods	EIS, IMP	EIS, IMP	EIS, IMP	EIS, IMP	EIS, IMP	-	-	-	-	-
Impedance Measurement Frequency Range	15 mHz - 200 KHz	15 mHz - 200 KHz	100 mHz - 100 KHz	15 mHz - 200 KHz	15 mHz - 200 KHz	-	-	-	-	-
Power (Max)	150 mW	150 mW	550 mW	150 mW	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	USB Type C	USB Type C	USB Type C	USB Type C
Compatibility	PC, Android	PC, Android	PC	PC, Android	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	43 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	39 x 18 x 9 mm³	39 x 18 x 9 mm³	45 x 18 x 12 mm³
Weight	6 gr	6 gr	6 gr	6 gr	6 gr	6 gr	6 gr	6 gr	6 gr	18 gr

solarbiotec
Solar Biyoteknoloji Ltd.
Alsancak m. 1476/1 s. 9/1
35220 Konak, IZMIR,TR
www.solarbiotec.com

CUSTOM POTENTIOSTAT SOLUTIONS

Reach us for OEM and custom potentiostat needs.

www.galvanoplot.com.tr

Product Support
galvanoplot@solar.com.tr