This is not just a potentiostat

**PEOPLE
YOU
CAN
TRUST**

Ω **Metrohm**
DropSens

This is a multi-user experience of efficiency, versatility and reliability

IMPROVE THE PERFORMANCE OF YOUR RESEARCH WITH µStat-i MultiX

Metrohm DropSens presents a **multichannel bipotentiostat, galvanostat and impedance analyzer** (MultiplEIS® technology) for multi-user and multidisciplinary electrochemical research.

Become flexible, free and advance: choose your appropriate configuration, work remotely and support your work by using DropView 8400M software.

MULTIPLE OPTIONS TO REVOLUTIONIZE YOUR PROJECTS

- Ensure the success of your projects with a **complete solution that adapts to your current and future needs** and keeps pace with your R&D team.

- Optimize your research and multiply your results working with up to **16 independent dual-channels** (with MultiplEIS® technology).

- Measurements can be performed and analyzed with an **advanced software** and by **remote connection**.

- **Increase the number of users** (up to 16 users) working with one instrument at the same time in different applications.

- **Efficiency, versatility and reliability** in one instrument. Discover **µStat-i MultiX.**
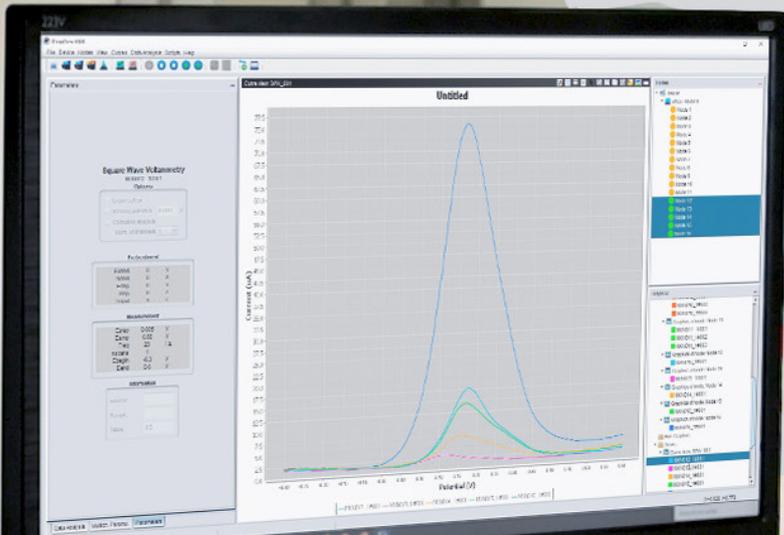
MAIN FEATURES	KEY BENEFITS
- Multi-channel	- Multiply your working team and save time
- Multi-user	- Simultaneous work of several users
- Remote connection	- Flexibility in end-user location
- Tailor-made configuration and expandable (4-16 channels)	- Configure the perfect instrument for you
- Multi-disciplinary	- One instrument for many applications
- Advanced and easy to use software	- Master µStat-i MultiX in no time

Multi,

in

MULTI-CHANNEL

Welcome to practicality. Work with multiple channels at your disposal to optimize your projects and save time. The totally independent multianalysis of parameters and measurements will allow you to advance at a higher speed and expand the amount of data processed and generated.

MULTI-USER

Grow your lab projects with this multi-user experience. Up to 16 different users can work simultaneously on a µStat-i MultiX with same or different techniques, multiplying your results.

REMOTE CONNECTION

No obstacle stands in the way. Thanks to the remote connection capability you don't need to be near the µStat-i MultiX to perform your experiments or treat the resultant data.

all

aspects

TAILOR-MADE CONFIGURATION

It's time to be more efficient and design your own instrument according to your needs.

Choose between four different models with the possibility to increment the number of channels from 4 up to 16 at any time. The choice is yours.

MULTI-DISCIPLINARY

Choose to work with total versatility across multiple techniques and disciplines: voltammetry, amperometry, impedance, potentiometry and mixed techniques for sensor development, corrosion, fundamental electrochemistry, electrocatalysis, hydrogen permeation, coin-cell batteries, among others.

SOFTWARE DROPVIEW 8400M MULTIPLIES THE OPTIONS

The advanced software dedicated exclusively to Metrohm DropSens instruments now offers you new possibilities for multiple analyses controlled by several users. Take full advantage of all the options offered by the µStat-i MultiX instrument working in absolute synergy with DropView 8400M.

Configure the perfect instrument for you

NODE 1

NODE 2

NODE 3

NODE 4

NODE 5

NODE 6

NODE 7

NODE 8

1-4

5-8

1 - 4

5 - 8

µStat-i
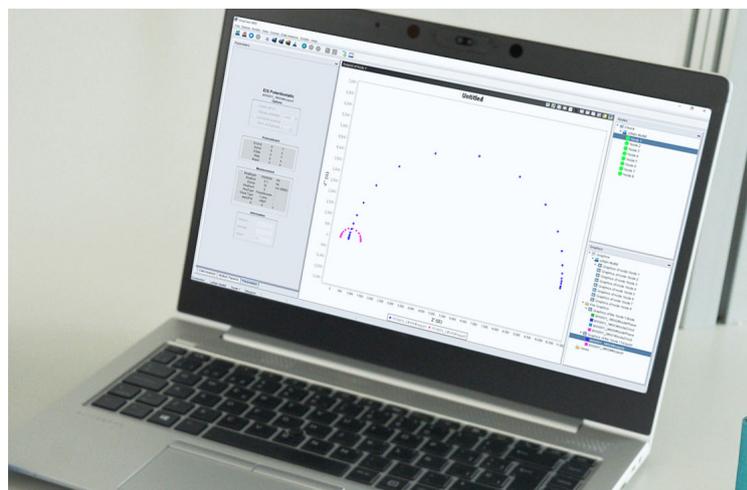
CONFIGURATION OPTIONS

MULTIDISCIPLINARY AND MULTI-USER EXPERIENCES ARE WITHIN YOUR REACH

Meeting your current and future needs has never been easier. Experience the versatile, high-quality and easy-to-use µStat-i MultiX that you can custom-configure now and expand later, after acquisition.

Choose from four configurations:

- µStat-i Multi4
- µStat-i Multi8
- µStat-i Multi12
- µStat-i Multi16

Once you have acquired the instrument you can upgrade the hardware if necessary, being able to have up to a maximum of 16 channels adding them in groups of four. If required, each group of four can be configured with galvanic isolation allowing you to work in floating mode.

Support your advances with DropView 8400M

SOFTWARE FEATURES

The software you use can make all the difference to the success of your daily work and projects. That is why Metrohm DropSens has developed an intuitive software where data analysis and processing are straightfoward, making it easy to interpret the results.

Manage multiple functions with a single click and take advantage of all the features offered by DropView 8400M software. Now you have even more dedicated options to maximize your efficiency and productivity with μStat-i MultiX:

- Independent node control
- Remote connection
- Atomate your experiments
- Multipotentiostat and multigalvanostat mode
- Combine potentiostatic and galvanostatic steps
- Compare data in real time

INDEPENDENT CHANNEL CONTROL

The instrument has up to 16 channels that can be used simultaneously by up to 16 different users. From the main menu of the software you can easily mange each channel independently

REMOTE CONNECTION

μStat-i MultiX users can choose and configure channels, and run and monitor experiments simultaneously and wirelessly via intranet/VPN.

AUTOMATE YOUR EXPERIMENTS

There are no limits to the workflow, DropView 8400M allows you to program the commands of your routine experiments with the use of scripts. Now it is possible to run these scripts independently on one or several channels.

MULTIPOTENTIOSTAT AND MULTIGALVANOSTAT MODE

Potentiostatic and galvanostatic techniques can also be used on several working electrodes (WEs), sharing the same counter and reference electrode, being able to change the potential applied to each WE.
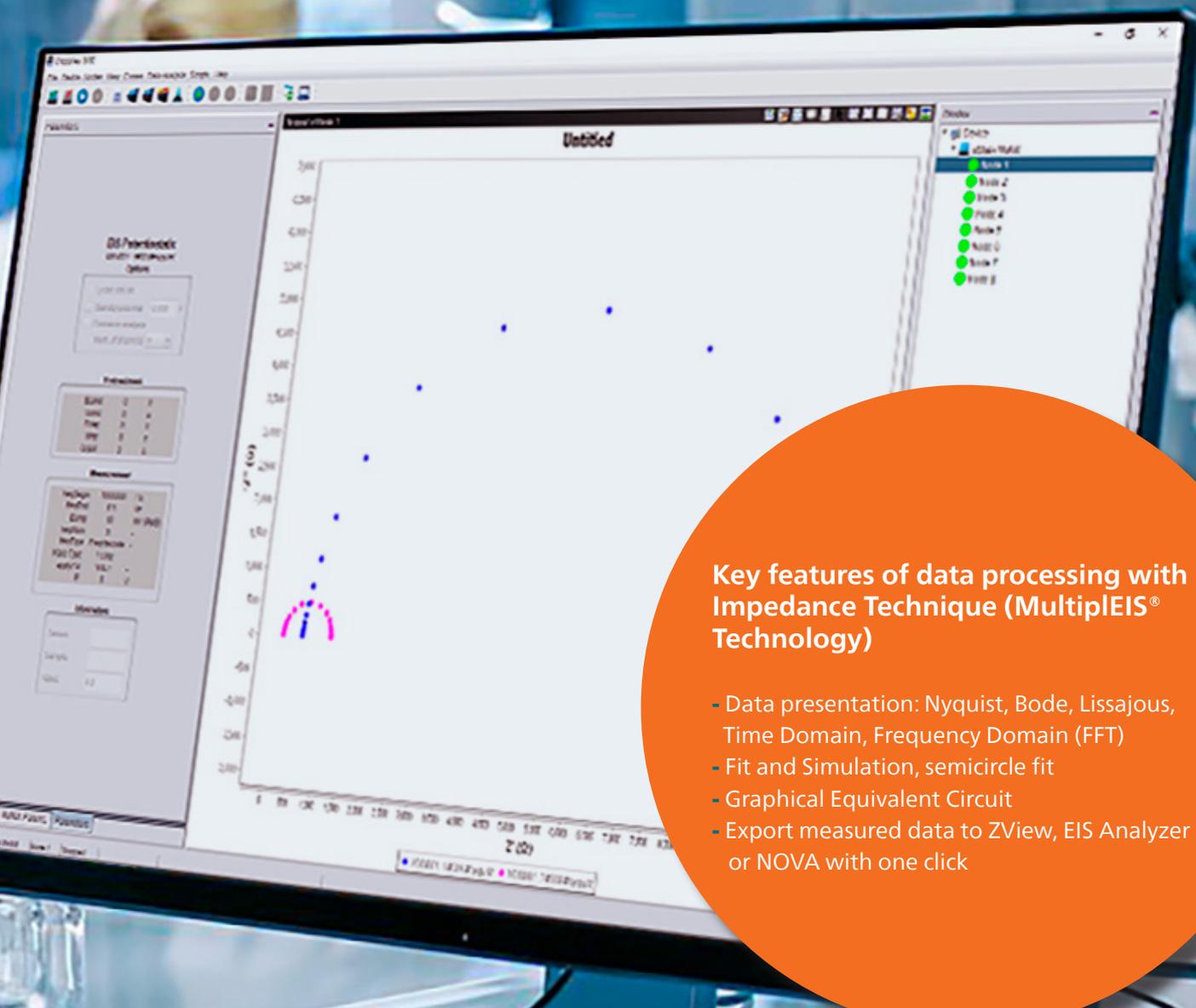
Key features of data processing with Impedance Technique (MultiplEIS® Technology)

- Data presentation: Nyquist, Bode, Lissajous, Time Domain, Frequency Domain (FFT)
- Fit and Simulation, semicircle fit
- Graphical Equivalent Circuit
- Export measured data to ZView, EIS Analyzer or NOVA with one click

COMBINE POTENTIOSTATIC AND GALVANOSTATIC STEPS

Thanks to the manual control scripts option you can create your own technique based on your preferences. Now you have the option to even combine potentiostatic and galvanostatic steps, gaining flexibility and expanding your research scope.

COMPARE DATA IN REAL TIME

Visualize measurements more effectively by customizing the overview of multiple displays. Manage this combined display interface from the settings in the main navigation bar.

The chosen data can also be displayed in a single dynamic graph showing the sequence of experiments, from start to finish, in real time.

Don't limit your R&D

Your electrochemical analysis needs are covered with the technical specifications in µStat-i MultiX. The variety of analytical techniques available expands the possibilities in your research covering multiple experiments such as: hydrogen permeation, fundamental electrochemistry, electrocatalysis, sensors, corrosion, coin-cell batteries, among others.

TECHNICAL SPECIFICATIONS

General Specifications	
PC interface	USB or Remote Connection
LED indicators	Power, Status, Measuring
Dimensions	44 cm x 30 cm x 14 cm (L x W x H)
Weight	6 Kg
Power	100-230 Vac 50/60Hz

Channel Specifications	
Operation modes	(Bi)Potentiostat/Galvanostat/Impedance Analyzer (EIS)
Cell configuration	2, 3 and 4 electrode configuration
DC-Potencial Range	±4 V
Current ranges (potentiostat)	±1 nA to ±10 mA (8 ranges)
Maximum measurable current	±40 mA
Potential ranges (galvanostat)	±100 mV, ±1 V (2 ranges)
Applied Potential Resolution	1 mV
External inputs/outputs	2 Analog inputs, 1 Analog output, 2 Digital input/outputs
EIS Frequency Range	1 mHz to 1 MHz
AC Amplitude Range	1 mV to 0.350 V rms (1.0 V p-p)
Current ranges (EIS)	±1 nA to ±100 mA (9 ranges)
DC fix potential or OCP	-3.5 V to 3.5 V

Particular Specifications	
Expandability	In groups of 4 nodes
EIS measurements	In all nodes, with MultiplEIS®
Multipotentiostat and Multigalvanostat	Several WEs sharing RE and AE
Multi-user	Remote connection via intranet/VPN through a host PC
Data recovery	Recovery from Backup
Galvanic Isolation (Floating mode)	Optional

By combining different techniques, you can explore new options, optimize, and refine your research being able to perform multiple identical or different experiments.

This flexible electrochemical analysis instrument and its technical specifications will enable you to perform at the highest level. You can review the technical specifications in the following tables. To find out more, visit us at www.metrohm-dropsens.com.

AVAILABLE TECHNIQUES

Potentiostat (Voltammetry)	LSV	Linear Sweep Voltammetry
	CV	Cyclic Voltammetry
	SWV	Square Wave Voltammetry
	DPV	Differential Pulse Voltammetry
	NPV	Normal Pulse Voltammetry
	NDPV	Differential Normal Pulse Voltammetry
	ACV	AC Voltammetry
	LPR	Linear Polarization Resistance

Potentiostat (Amperometry)	AD	Amperometric Detection
	ZRA	Zero Resistance Amperometry
	FA	Fast Amperometry
	PAD	Pulsed Amperometric Detection
	MAD	Multipulsed Amperometric Detection
	COUL	Coulometric Detection

Potentiostat (EIS/FRA)	EISP	EIS Potentiostatic

Galvanostat	LSP	Linear Sweep Potentiometry
	CP	Cyclic Potentiometry
	PD	Potentiometric Detection
	OCP	Open Circuit Potentiometry
	FP	Fast Potentiometry
	PSAG	Potentiometric Stripping Analysis (Galv.)
	PSAF	Potentiometric Stripping Analysis (Faradaic)
	MPD	Multipulsed Potentiometric Detection

Mixed Techniques	LSV+AD	Linear Sweep Volt. + Amperometric Detection
	CV+AD	Cyclic Volt. + Amperometric Detection

Multipotentiostat Techniques	LSV	Linear Sweep Voltammetry
	CV	Cyclic Voltammetry
	AD	Amperometric Detection
	COUL	Coulometric Detection

Multigalvanostat Techniques	LSP	Linear Sweep Potentiometry
	CP	Cyclic Potentiometry
	PD	Potentiometric Detection
	OCP	Open Circuit Potentiometry

SUPPORT SERVICE

You can trust in us; we make sure that our specialists are ready to help you in the shortest time and anywhere in the world in case your instrument needs maintenance or you need technical advice.

The local support we provide worldwide is flexible, efficient, and fast. Our support service is always performed by certified Metrohm support engineers and experts.

Metrohm technical support guarantees 100% functionality and compliance with product specifications.

WARRANTY

Metrohm DropSens' instruments and products are developed following strict quality policies and are certified according to the relevant regulatory requirements.

The warranty of the µStat-i MultiX covers a period of THREE (3) YEARS.

ORDERING INFORMATION

For further information, please contact your Metrohm sales representative or Metrohm DropSens: sales.dropsens@metrohm.com

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