

Metrohm Autolab Specifications

Electrochemical Quartz Crystal Microbalance module (EQCM)

EQCM	
Oscillation frequency	6 MHz
Frequency range	80 kHz
Frequency resolution	0.07 Hz
Relative frequency accuracy	1 Hz
Minimum sampling interval	20 ms (50 Samples/s)
Temperature sensor accuracy	1 °C
Temperature sensor resolution	0.1 °C
Operation temperature of the holder	10 – 40 °C
Output signals	ΔFrequency (Hz) Temperature (°C) Driving force (V)
Driving force adjustment	External trimmer
EQCM cell and crystals specifications	
Connections to crystal holder	9 Pin Sub-D connector, 2 m long
Cell material	Polypropylene
Cell volume	Max. 3 mL
Crystal diameter	1.36 cm (0.538")
Electrode diameter	0.67 cm (0.267")
Thickness of Au coating	1000 Å
Thickness of the adhesion layer	100 Å
Reference electrode	Ag/AgCl, 3 mol/L KCl, in gel
Counter electrode	Au wire

PGSTAT128N	PGSTAT302N	M101*	M204*	PGSTAT101*	PGSTAT204*	Module Type	Potential Application Segment
•	•	•	•		•	Electrochemical Quartz Crystal Microbalance module (EQCM)	Corrosion, Electroanalysis, Fundamental, Plating, Sensors

* Current integrator included.

Dedicated to research



MODULES

ADC10M

BA

Booster 10A

Booster 20A

ECD

ECI10M

ECN

EQCM

F120

FRA32M

MUX

pX1000

Scan250

Metrohm Autolab

Metrohm Autolab instruments are specifically designed for electrochemical research, delivering the requirements of most application areas.

Metrohm Autolab provides an industry-leading **3 year warranty** for all instruments, modules, and instrument accessories

✓ Reliability

Metrohm Autolab installed instruments average 99% uptime in the first 5 years of installation.*

✓ Superior Service

Our dedicated distribution and service network provide a fast response for sales and service, usually within 48 hours.

✓ Versatility

Metrohm Autolab instruments can easily and efficiently be combined with a wide range of instrumentation.

✓ Powerful software

NOVA is the powerful data acquisition and analysis software that powers your experiment.

Metrohm Autolab is an
ISO 9001 certified company.

Dedicated to research

www.metrohm.com/electrochemistry



*Based on European markets most widely sold instrumentation.