QSense
Flex Holder, QEFH



QSense® Flex Holder (QEFH) brings QCM-D into the electrochemical setup you already use. Instead of moving your experiment into a dedicated cell, you mount the QCM-D sensor in the holder and immerse it in your own beaker or multi-port electrochemical cell. The sensor becomes the working electrode, while your existing counter and reference electrodes stay where they are.

The holder is sealed so that only the active sensor surface meets the electrolyte, and all wetted parts are made of PEEK and FFKM for good chemical resistance. You can follow deposition, dissolution, corrosion and changes in material properties as they happen, with QCM-D and electrochemistry data recorded on the same surface. Potentiostat data from a BioLogic SP-200 or SP-300 is shown live in the QSense Edge software, and other potentiostats can be used with a common start trigger.*

General Specifications:	
Compatibility	QSense Edge
Type of measurements	Immersion in the user's own beaker or multi-port electrochemical cell
Electrolyte compatibility	Aqueous and non-aqueous electrolytes
Electrolyte volume	100–200 ml, used in standard beaker
Port fit	Fits through a 10,5 mm opening
Temperature	Built-in temperature sensor for monitoring Temperature control with an external jacketed beaker (not included)
Operating temperature range	5–70 °C
Maximum EIS frequency	200 kHz
Materials exposed to liquid	PEEK, FFKM (gaskets) QSense sensor surface (selectable from the QSense sensor range)
Dimensions and weight	Height: 133 mm; Diameter: 34 mm; Thickness: 23 mm; Weight: 0,05 kg

Contact us at info@biolinscientific.com
Draft 05.11.2026

Biolin Scientific
Empowering Innovators

Other	
Delivered with: QEINST Battery cell and Flex holder installation kit, and QCS 211 Accessory kit for QSense Flex Holder.	
* Notes on potentiostat: 1. BioLogic SP-200 and SP-300: data is read into the QSense Edge software (live view and synchronized export). 2. Other potentiostats: a trigger function gives a common start. Their data is not read into the QSense software. 3. Only the working electrode is connected through the flex holder; the counter and reference electrodes connect directly from your cell to the potentiostat.	
Electrodes:	
Working electrode	The QCM-D sensor itself
Counter and reference electrodes	Supplied by the user's electrochemical cell
Potentiostat connection	WE only, 2 mm banana connector
Sensor (WE)	
Fundamental frequency	~5 MHz
Sensor diameter	14 mm
Electrode area exposed to electrolyte	0,82 cm^2 (Ø 10,2 mm)
Thickness (sensor + Au)	340 µm
Roughness of optically polished electrode surface	< 3 nm (RMS)

Exploded view

