

AW-BQ01Q QCM 14 mm in batch Cell

- For use with BluQCM instruments
- For QCM 14 mm wrapped sensors
- For QCM in batch applications

General

Sensor	QCM 14 mm WRAPPED
Connector	AWS Connector
Dimensions (mm)	47 (L) x 33 (W) x 44 (H)
Assembly mechanism	Quick-Lock
Chamber volume	6 mL (max)



Materials

Cell base	Aluminium
Cell Cover	PEEK and PTFE
O-ring	Perlast®

Compatible sensors

14 mm, wrapped	5 MHz
14 mm, wrapped	10 MHz



BOTTOM SIDE: AWS connection

Cleaning recommendations and maintenance

- Generally, use a soft and clean, lint-free cloth to clean the cell.
- Use solvents that do not attack the cell materials (check chemical compatibility information).
- Do not immerse the cell in liquids.
- Dry the cell with streams of nitrogen gas.
- Avoid touching the seals and contacts to prevent damage and protect them from dust and oil.
- Keep electrical connectors clean by occasionally rubbing ethanol over them.
- Store the cell in its original packaging when not in use.

Assembly



1 Identify the matching indents in both parts of the cell

2 Place the sensor in marked position

3 Close the cell (vertically push the lid and turn)

Chemical compatibility of materials (guidance)

PEEK Polyether ether ketone, is a semi-crystalline thermoplastic with excellent mechanical and chemical resistance properties that are retained to high temperatures (up to 260 °C). It is resistant to radiation as well as to a wide range of solvents, both organic and aqueous. With its resistance to hydrolysis, PEEK can withstand boiling water and superheated steam used with autoclave and sterilization equipment at temperatures higher than 250 °C. It is attacked by halogens and strong Brønsted and Lewis acids as well as some halogenated compounds and aliphatic hydrocarbons at high temperatures. It has high resistance to biodegradation.

PTFE Polytetrafluoroethylene, is a tough, hydrophobic, nonflammable thermoplastic fluoropolymer, produced by the polymerization of tetrafluoroethylene. Certain alkali metals and fluorinating agents such as xenon difluoride and cobalt(III) fluoride can damage PTFE, but otherwise it is highly resistant.

Perlast® Perlast® (trademark of Precision Polymer Engineering Ltd) is a high-performance perfluoroelastomer material (FFKM). The most chemically resistant elastomer available, a rubber form of PTFE, it displays good properties in applications where purity, high temperatures and retention of sealing force are important.

Components manufactured with other materials may be available for applications with special requirements. Contact us for further information.