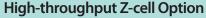
## Sampling Accessories Fluid Analysis Systems

Our FIA-1000-Z Flow Cell Kit is a convenient, low-cost fluid handling system that couples to Ocean Optics high-sensitivity miniature spectrometers and light sources for fast, quantitative analysis of solutions.

The FIA-1000-Z system consists of a two-channel peristaltic pump, a 1-cm pathlength fiber optic flow cell, a fittings kit and Windows-based operating software. A pair of optical fibers or special bifurcated assembly (priced separately) completes the package.

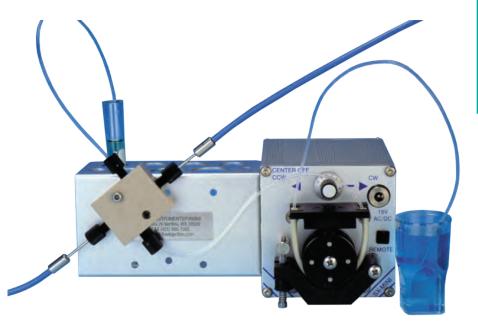


The FIA-Z-SMA-PEEK-LENSED is a 10 mm Z-type flow cell that includes two collimating lenses and special SMA 905 adapters that increase the UV-VIS throughput of the flow cell by up to 10x compared with the standard Z-cell. The high-throughput cell can be used as part of any system that has an Ocean Optics spectrometer configured for optical absorbance measurements, but is especially attractive as part of a multichannel Jaz system configured for chromatographic applications.

The FIA-Z-SMA-PEEK-LENSED cell has good chemical resistance to a wide range of organic and inorganic materials. Its lens material is UV-grade fused silica with response from 200-900 nm. By adding accessories such as the FIA-PUMP-C and a pair of QP450-1-XSR 450 µm extreme solarization resistant optical fibers, you can create a system comparable to the FIA-1000-Z Flow Cell Kit.

## **Specifications**

| Criteria           |                                                              |
|--------------------|--------------------------------------------------------------|
| Spectral range:    | 260-2000 nm                                                  |
| Cell materials:    | PEEK, Plexiglas, Teflon, Stainless Steel or Ultem            |
| Inner diameter:    | 1.5 mm                                                       |
| Window material:   | UV-grade fused silica                                        |
| Pathlength:        | 10 mm                                                        |
| Fiber connectors:  | SMA 905                                                      |
| Tubing:            | 1/16" Teflon, ~3 m                                           |
| Tubing connectors: | 1/4-28                                                       |
| Pump dimensions:   | 105 mm x 105 mm x 185 mm                                     |
| Pump weight:       | 2100 g                                                       |
| Flow rate:         | 200 mL/minute/channel (depending on RPM and tubing diameter) |
| Pressure rating:   | 25 psi                                                       |



## **Available Items**

| Item                                                | Description                                                                                                                                                                                         |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FIA-1000-Z                                          | Z-SMA flow cell with peristaltic pump. Includes operating software with code for computer control of pump. User specifies cell material: Teflon, Plexiglas, Stainless Steel, PEEK polymer or Ultem. |
| FIA-ZSMA                                            | Replacement Z-SMA flow cell for FIA-1000-Z. User specifies cell material: Teflon, Plexiglas, Stainless Steel, PEEK polymer or Ultem.                                                                |
| FIA-ZSMA-100<br>FIA-ZSMA-50<br>FIA-ZSMA-20          | Z flow cell w/SMA 905, 100 mm pathlength<br>Z flow cell w/SMA 905, 50 mm pathlength<br>Z flow cell w/SMA 905, 20 mm pathlength                                                                      |
| FIA-ZSMA-ML                                         | Z flow cell with SMA 905 connector, microliter volume. User specifies cell material: Teflon, Plexiglas, Stainless Steel, PEEK polymer or Ultem.                                                     |
| FIA-ZSMA-ML-100<br>FIA-ZSMA-ML-50<br>FIA-ZSMA-ML-20 | Z flow cell w/SMA 905, microliter volume 100 mm path Z flow cell w/SMA 905, microliter volume 50 mm path Z flow cell w/SMA 905, microliter volume 20 mm path                                        |
| FIA-Z-CELL                                          | Adjustable replacement cell for use with FIA-1000-Z. Connects to fiber optics w/ferrule termination. Standard cell materials are Plexiglas, Stainless steel, Teflon, Ultem or PEEK.                 |
| FIA-P200-SR                                         | Custom 200 µm ferrule-termination fiber optic for use with FIA-Z-CELL; requires 2 fibers.                                                                                                           |
| FIA-P400-SR                                         | Custom 400 µm ferrule-termination fiber optic for use with FIA-Z-CELL; requires 2 fibers.                                                                                                           |
| FIA-PUMP-C                                          | Replacement peristaltic pump (computer-controlled) for FIA-1000 flow cells                                                                                                                          |

