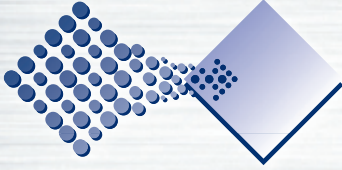


Extractive Flow Cells and Optical Interface Couplers



Custom Sensors & Technology produced high quality extractive flow cells and Optical Interface Couplers (OIC's) for fiber optic based industrial spectroscopy applications. All of our extractive flow cells are designed to offer our customers maximum flexibility in terms of materials of construction, pathlength, and physical exposure to extreme process conditions.

Extractive Flow Cell Applications

Custom Sensors & Technology continues to provide exceptional tools to measure various gases and liquid samples. We provide the industry with extractive fiber optic flow cells, OIC's and other optical tools used to manage light energy from source to detector in either lab or process environments.

Process OIC's are used with flow cells as a sample interface. In a flow cell, a small portion of the liquid or gaseous chemical stream is extracted from the main line and directed in a by-pass loop through the flow cell before returning to the process stream. Collimating optics directs the light from the photometer or spectrometer through the length of the flow cell and collect the light at the distal end. Light then returns to the spectrometer via the fiber optics where appropriate intensity and therefore concentrations are determined.



Above, extractive flow cell family. Pathlengths range from 0.05 mm to 120 cm.

OIC Family (fit into different flow cell bodies)



Bio-tech flow cell with chromatographic column attached to cell inlet and flow control solenoid valve attached to cell exit.



Sanitary flow cell has the ability to measure high concentrations with pathlengths down to 0.1 mm pathlengths.



Cross flow cell. Variable pathlengths between 0.5 up to 10mm.

