



Robust process analysis cells for use with coherent spectrometers.

FFM Series

FIBER-OPTIC COUPLED MULTI-PASS GAS CELLS

FFM Series process gas cells have been designed to take maximum advantage of the spatial coherence which characterizes the new generation of spectrometers based on tunable lasers. Two key elements of the design are a high degree of mechanical precision combined with robust materials (fused silica and stainless steel) in contact with the process stream. These are combined with an optical design which allows the cell to be aligned while assembled by using a fiber-coupled visible laser source. As a result, and FFM cell can be disassembled, cleaned with common solvents, reassembled, and realigned in minutes. This makes the FFM highly suitable for use in applications such as dryer off-gas monitoring where upset conditions may occasionally coat the interior of the cell with powders or other contaminants.



Features:

- Extreme chemical resistance
- Suitable for high temperatures and pressures
- Can be easily cleaned and reassembled
- Easy alignment when fully assembled
- No delicate optics in contact with process stream
- Can be switched between 2 and 6 passes
- Choice of pathlength per pass

FFM-200 Specifications:

Number of Passes:	2 and 6 (selectable)
Standard Pathlength per Pass:	1 meter
Optical Material in Contact with Process:	Fused silica
Material of Construction:	PTFE coated 316 stainless steel
Seals:	Kalrez 6375 O-rings
Alignment:	Laser alignment source provided
Provision for Cleaning:	End assemblies can be removed and reinstalled while requiring only minimal alignment