

## SERIES 70 PTFE Liquid Transmission Cell

PSD's Series 70 PTFE Liquid Transmission Cell is a precision optical instrument that allows remote sensing of liquids via fiber optic assemblies. The material of construction allows for use in corrosive liquids. This cell is fiber-coupled for unattended side-stream or in-line process monitoring or laboratory testing. Fibers are easily attached via SMA 905 connectors. The optical design is pre-aligned and optimized for maximum optical throughput in the UV to NIR spectral region. The design creates a collimated beam across the interior space of the cell for transmission measurements. One lens assembly collimates the light from the incoming fiber assembly into and across the transmission cell and the second lens assembly focuses the received energy back into the return fiber assembly.

The cell can handle operating temperatures and pressures up to 100°C and 50 PSI. The construction material is 316/316L stainless steel. The path length is pre-set at PSD and is determined by a high tolerance spacer. Spacers are available to provide path lengths from 1mm–50mm. The process connections are made through two 1/8" NPT female threaded ports.

### PRODUCT HIGHLIGHTS

- Optional UV and visible light sampling
- Robust and inert construction for laboratory applications
- Capable of operating up to 100°C and 50 PSI