

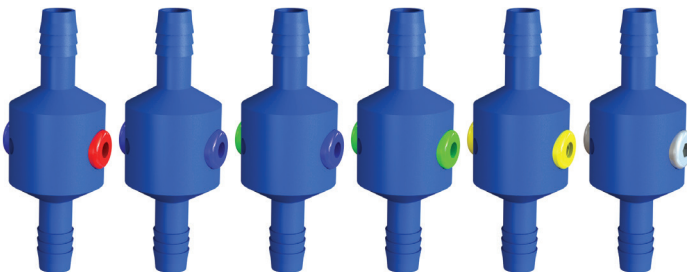
# Single Use Hygienic Measurement Cell

## Benefits:

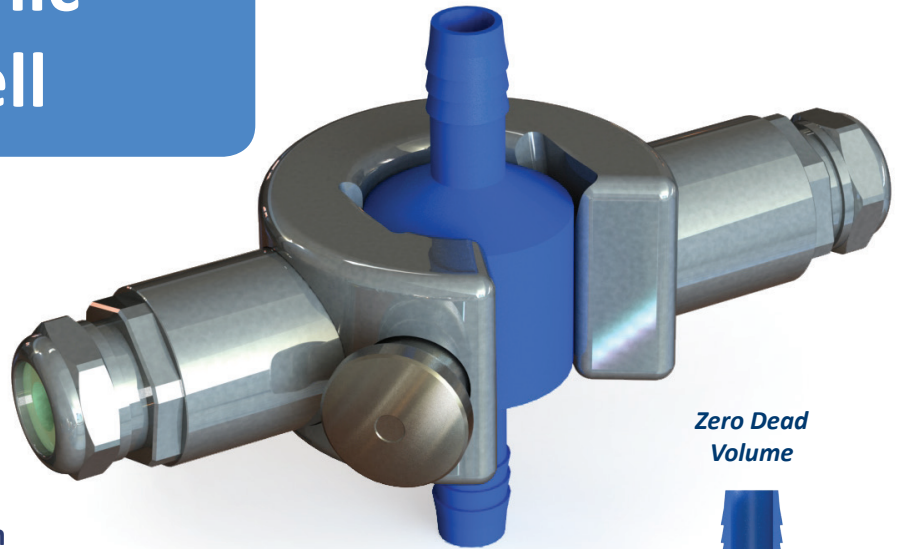
- Zero dead volume
- Quick release mechanism
- Line sizes from ¼" to 1"
- Optical path-lengths from 10 mm (4.5 OD) to 0.5 mm (90 OD)
- USP Class VI and FDA certification
- Sterilized by autoclaving or irradiation

Kemtrak single use measurement cells eliminate cross-contamination between products and batches, offering the utmost in safety, convenience and flexibility in bio-pharmaceutical processing. The Kemtrak single use UV measurement system is ideally suited to chromatographic separation and filtration applications where a wide selection of line sizes and choice of measurement path lengths accommodate small scale discovery to full scale production.

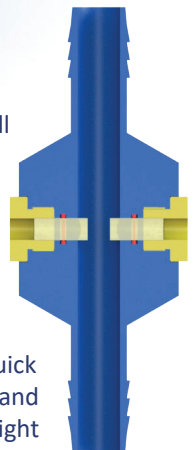
Manufactured from high purity medical grade poly-phenylsulfone (PPSU), measurement cells are color coded for optical path length and sterilizable either through autoclaving or irradiation.



0.5 mm OPL   1 mm OPL   1.5 mm OPL   2 mm OPL   5 mm OPL   10 mm OPL



Zero Dead Volume



Zero dead volume across the entire cell range ensures sharp peak detection for fractionation control and filtration applications.

Kemtrak single use measurement cells are available from ¼" to 1" and all have ready-to-attach hose barb connections. A robust, space saving cell dock with quick insertion/release mechanism swiftly and precisely positions the cell in the optical light path for reliable measurement performance. Measurement cells can be delivered with an optical path length (OPL) from 10 mm to 0.5 mm, giving overall measurement range capability of 4.5 to 90 OD when used with a Kemtrak DCP007 UV absorbance analyzer.

The Kemtrak DCP007 is an industrial in-line UV fiber optic photometer designed to accurately measure UV absorbance of fluids in filtration and separation systems using a stable long life solid state LED light source and precision fiber optics. Resulting measurements are drift free with exceptionally high precision.

## Specifications

### Dock for Measurement Cell

Material: Stainless Steel 316 L (polished)  
 Fiber Optic: SMA 905 type connector  
 Ambient Temperature: -40 to +130°C (-40°F to +266°F)  
 Protection rating: IP65, NEMA 4

### Single Use Measurement Cell

Material: Polyphenylsulfone (PPSU - blue color)  
 Windows: UV grade fused silica (190 - 2000 nm)  
 O-rings: EPDM, FFKM (FDA, USP class VI)  
 Surface: Ra < 0.8 µm  
 Process Connection: Hose barb  
 Line size: ¼" to 1"  
 OPL: 0.5, 1.0, 1.5, 2, 5 & 10 mm  
 Pressure: 0 - 6 bar (0 - 87 psi)  
 Temperature: -50°C to +190°C (-58°F to +375°F)  
 Target steam sterilization temperature: 135 °C (275 °F)  
 Radiation sterilization up to 4 Megarads (Mrad) or 40 kiloGrays (kGy)

Compatible with all Kemtrak UV-VIS-NIR industrial photometers and third party photometers/spectrophotometers using SMA 905 type fiber optic connections.

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*Kemtrak is a leading manufacturer of fiber optic measuring and automation products for the process engineering industry. Kemtrak provides tailor made solutions to meet the needs of a wide range of industries including chemical, petrochemical & offshore, biotech, pharmaceutical, food & beverage, pulp and paper and water & environment. Kemtrak has trained representatives and support personnel globally and is certified according to ISO 9001:2015.*