

PRODUCT DATASHEET

# Cuvette Holder Lab Sample Interface

Compatible with Commercially  
Available Cuvette Cells



**Convenient**

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**Compact**

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**Accessory**

- Ideal for method development
- UV-VIS or NIR optics
- Optical paths of 20, 10, and 5 mm

## Cuvette Holder Lab Sample Interface

The Cuvette Holder is a convenient, compact, rugged lab sample interface that is easy to use and even easier to service. It is a useful accessory for laboratory work, calibration development, or feasibility studies. There are two styles of GUIDED WAVE cuvette holders that complement different end-use requirements.

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### Traditional Single Cuvette Holder

The Traditional Single Cuvette Holder comes with an optional, removable solid-state filter holder for easy analyzer system validation. This cuvette holder is standardized for cell pathlengths of 10 mm or 20 mm. It connects to any photometric analyzer through a pair of intrinsically safe fiber optic cables. The cuvette holder can be configured at the time of order for operation in either the VIS-NIR spectral range or the UV-VIS spectral range.



### Triple Cuvette Holder for High Throughput QC Lab Operations

Quality Control Labs for refineries often test grab samples to verify the accuracy of process analyzers. Different sample streams and calibrations may require different pathlengths. High throughput operations benefit from the Triple Cuvette Holder's ability to simultaneously accept several sizes of cuvettes or vials. At the time of the quotation, the required pathlengths for each of the slots is defined. The custom design allows the holder to be compatible with standard NIR or UV-VIS cuvettes and disposable plastic cuvettes or HPLC vials.



### Exceptional Light Transmission

One of the primary advantages of UV-VIS and NIR process spectroscopy is the utilization of intrinsically safe fiber optic cables to remotely locate the analyzer relative to the sample interface (probe, flow cell) installed in the process. The Cuvette Holder is used in the lab to replace the sample interface for grab sample testing. Like all our branded sample interfaces, both the Single and Triple Cuvette Holders provide exceptional optical performance. Internal optics result in a collimated light beam for consistently accurate measurements. Typically, peak transmission exceeds 60%. That means more signal, less noise, and lower detection limits for the measurement.

## Cuvette Holders are Compatible with All Photometric Analyzer Brands

Both the Triple Cuvette Holder and Traditional Single Cuvette Holder are manufactured to integrate with any lab-grade fiber-optic photometric analyzer brand. To ensure compatibility, select either UV-VIS or NIR optics.

Get the full power of this technology and choose the Cuvette Holder along with one of our optically matched analyzers and process grade fiber optic cables – *for control you can measure!*

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Specifications	
Optical Pathlength	10 mm, 20 mm; 5 mm Triple Holder only
Spectral Range	UV-VIS (200-1000 nm); VIS-NIR (400-2100 nm)
Fiber Connector ( $\mu\text{m}$ )	SMA 905
Optical Efficiency	>60% (800 – 1650 nm)
Body Material	aluminum (black)

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## Large Variety of Configurable Designs

Process Insights offers a variety of probes, flow cells, and fiber optic cables that meet the harsh demands of the process environment. Several have auxiliary features. All the sample interfaces (probes and flow cells) can be optimized for the UV-VIS and NIR spectral regions or supplied with custom fiber diameters and connectors to match the optical requirements. Many include optional accessories for easy adaptation to different process installation configurations.

## GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights manufactures and delivers premium sensors, monitors, detectors, analyzers, instrumentation, and software that are mission-critical to keep your operations, personnel, and the environment safe – every day across the globe.

Get the most reliable, precision analytical technologies available on the market today. We will work to match your needs and budget, and provide the optimal, and most stable process analysis solution for your application.

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## CENTERS OF EXCELLENCE | PROVIDING PROVEN SOLUTIONS

Process Insights is committed to solving our customers' most complex analytical, process, and measurement challenges everyday.

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For a complete range of products, applications, systems, and service options, please contact us at: [info@process-insights.com](mailto:info@process-insights.com)

For a complete list of sales & manufacturing sites, please visit: <https://www.process-insights.com/about-us/locations/>

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REVOLUTIONIZING MEASUREMENT

**EVERYWHERE**