

MODEL UVA 5000

UV Absorbance Process Photometer





Features

- Compact, space-saving configuration with no moving parts that is available for use in either hazardous or non-hazardous rated areas
- 316SS High-Pressure rated Sample Cell that is isolated from the analyzer electronics
- Optical design approach that compensates for source and detector aging
- Long-Life, Pulsed UV Xenon Flash Lamp
- Photomultiplier Tube (PMT) detector which provides a highly sensitive and stable measurement of the gas of interest
- Touch-Screen User Interface with intuitive mode buttons & menus that also provides visual diagnostic information by an automatic change in concentration display color

Description

The CAI Model UVA-5000 utilizes the field-proven UV Absorbance method to continuously detect gasphase compounds that are capable of absorbing UV light energy. It utilizes Beer's Law, the attenuation of light as it passes through a flowing sample gas, to monitor for changes in concentration of the desired analyte. The CAI UVA 5000 consists of a pulsed, UV Xenon lamp, 2 x fiber optic cables, a flow-through, temperature-controlled sample cell and a PMT (Measure) & PbSe photodiode (Reference) detector. Light energy from the pulsed Xenon lamp is fed via a fiber optic cable to a cross-flow sample cell. The light passing through the flowing sample is collected by the receiving fiber and conveyed to the photo-multiplier tube (PMT) measurement detector to provide a continuous analysis of the compound of interest. A beam splitter is employed to direct the attenuated light to both the measurement and reference detectors. CAI selects and incorporates specific measure & reference wavelength optical filters into the light path based upon the given application.



Gas Phase Sample Flow Cell fitted with Optical Fiber Couplers

Typical Applications

- Trace H2S in Natural Gas / Amine Scrubbers
- Trace SO2 in Flue Gas Desulfurization (FGD)
- Trace CL2 in Stack Gas & Process Scrubbers
- Trace CLO2 Analysis in the Pulp & Paper Ind.
- % F2 in UF6 Analysis / Nuclear Fuel Processing

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Specifications

Measurement Principle - UV Absorbance

Light Source - Pulsed UV Xenon Flash Lamp

Detector - Photomultiplier Tube (PMT) Detector

Fiber Optic Cables - (2) x 1 meter, 600 micron core cables

Sample Flow Cell - 316 Stainless Steel Cross Flow Cell (*)

Range - Application Dependent- Contact Factory

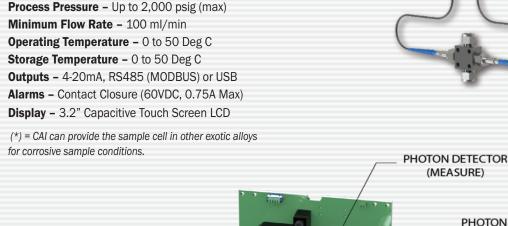
Response Time - Electronic Response is T90 in 2 seconds

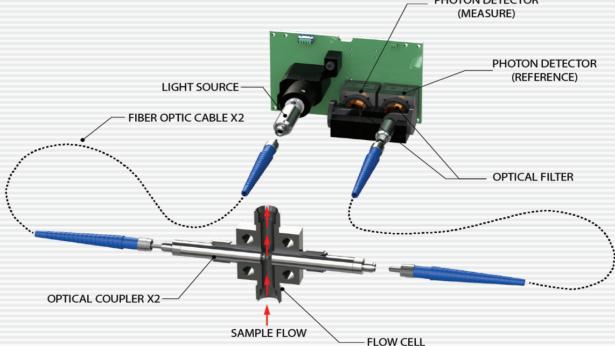
Accuracy – Typically +/-1% of F.S. - (Appl Dependent)

Power Requirement - 24VDC Nominal (12 to 48VDC), 8.5 Watts

Enclosure - NEMA4X or EXD Configurations Available

Process Temperature - 200 Deg C (max)





Specifications subject to change without notice.



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