



MODEL UVA 5000L

UV Absorbance Process Photometer

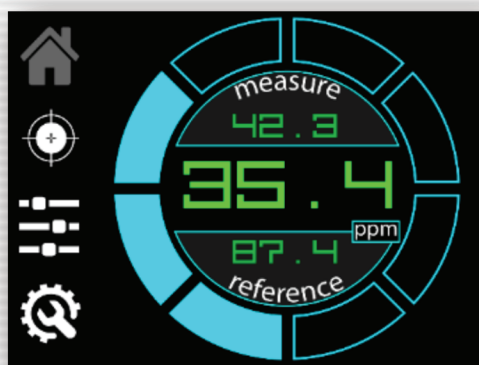


Features

- 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 of the analyte 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 liquid-phase 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 liquid, 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 liquid 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.



Typical Applications

- ASTM-Saybolt Color Analysis of Petroleum Products
- Trace Chlorine in Water Analysis/ Enviro Safety
- Trace Detection of Aromatics in Water
- Sodium Hypochlorite (NaOCl) in Spent Caustic

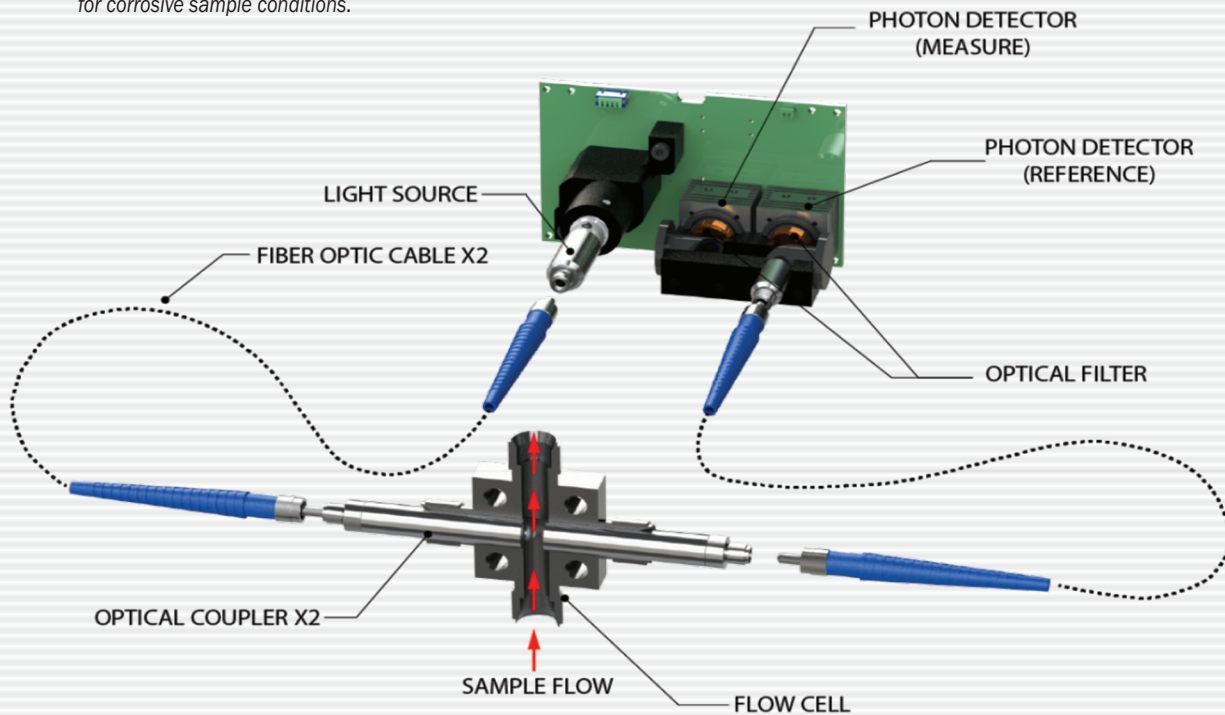
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Specifications

- 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)
- Process Pressure** – Up to 2,000 psig (max)
- Minimum Flow Rate** – 100 ml/min
- Operating Temperature** – 0 to 50 Deg C
- Storage Temperature** – 0 to 50 Deg C
- Outputs** – 4-20mA, RS485 (MODBUS) or USB
- Alarms** – Contact Closure (60VDC, 0.75A Max)
- Display** – 3.2" Capacitive Touch Screen LCD

(*) = CAI can provide the sample cell in other exotic alloys for corrosive sample conditions.



Specifications subject to change without notice.



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