

Model MoniSpec-AD (MSAD)



- **Low maintenance**
- **Extended calibration interval: Typical 12 month**
- **Sight glass material: Sapphire**
- **Sight glass cleaning: Via cleaning jet probe**
- **Cleaning in place (CIP)**
- **Process connection: DIN, ANSI, SMS, NPT, APV, TH, ...**
- **Optional air purge connection: 4mm**

Description:

The sensor model MoniSpec-AD uses the principle of dual channel light absorption to detect colour in liquids. The transmitter model Messenger is required to use this sensor. The system has been designed for continuous operation with long life time. The difference between measurement and reference channel ($[\text{colour} + \text{turbidity}] - \text{turbidity} = \text{colour}$) provides the colour signal. The sensor can be installed into almost any type of pipe. Process connection, gasket material, etc. will be selected application specific. Optional cleaning jets will allow a cleaning of the sapphire windows in determined intervals. Calibration can be done in multiple ranges and measurement units like Hazen, APHA, ASTM, ppm, etc.. Due to the availability of multiple optical path lengths (2mm up to 500mm) the sensor allows measurement ranges of approximately 0-20Hazen up to 0-50000Hazen.

Applications:

- Product colour
- Hazen colour according APHA
- ASTM 1500 colour & Saybolt Colour
- Lovibond colour & EBC colour

Operational areas:

- Chemical industry
- Petrochemical industry
- Water & vegetable oil
- Brew & Beverage

Technical Data:

Line size:	DN 25 – DN 125 / ½" - 5"	Measurement range:	typical 0–20Hazen, 0–50000Hazen
Process pressure:	PN16 / ANSI class 150	Reproducibility:	± 1 %
Process temperature:	maximum 140°C	Detector:	Silica diode
Sensor material:	1.4404 / 316L	Measurement wavelength:	390 - 900nm
Sight glass material:	Sapphire	Cleaning:	optional cleaning jet probe
Gasket material:	application specific	Sterilization:	CIP (cleaning in place)
Protection class:	IP65 / NEMA 4X	optional hazardous area:	ATEX Zone I or Zone II