

UV-SPECTOR

Fiberoptic Inline UV-VIS Process Spectrometer –
for More Transparency in Process Control



UV-SPECTOR Inline Process Spectrometers are designed for direct immersion in chemical industry production processes, and are outstanding for their robust design and technical features. One spectrometer can be coupled with up to 6 fiberoptic probes for transmission-, transfection-, and ATR-applications via standard SMA-connectors. The UV-SPECTOR-EX model is specifically designed with a pressure-tight housing for usage in Ex-zones 1 and 2.

The Inline Process Spectrometer UV-SPECTOR has a wide range of applications. These extend from simple color measurements, the determination of color metrics and concentration measurements to multicomponent analysis in liquids and gases. Areas of application: chemistry, petrochemistry, pharmaceutical industry, biotechnology, water, waste water, breweries, sugar or vegetable oil refinery and wherever the liquid's quality is determined by its visual appearance.

UV-SPECTOR – the Clear Advantages at a Glance



- Spectral range: from 220 nm to 1100 nm
- Drift free measurement with internal reference
- Designed to accommodate up to 6 measuring points per spectrometer
- Ideal for transmission-, transfection-, and ATR-measurement
- ATEX certified for use in Ex-zones
- Rapid analysis with diode arrays
- Easy to operate

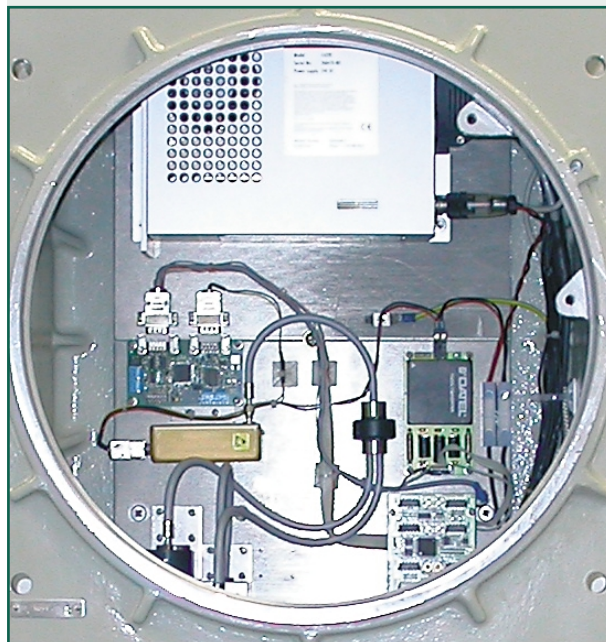
UV-SPECTOR Meets the Highest Demands in Process Analytical Technology

Applications

Determination of single parameters or multicomponent analysis in liquids and gases.

Standard Procedures

- Exact color number determination according to APHA, EBC, Hazen, Lovibond and Sayboldt as well as the determination of color variations caused by impurities
- Measurement of UV-VIS absorbing gases such as F_2 , Cl_2 , Br_2 , I_2 , NO_x , SO_2 , Ozone, Hg
- Control of membrane separation or process chromatography
- Reaction monitoring in heterogeneous catalysis systems
- Online determination of concentrations in active ingredient- or color concentrates



Specifications

Spectral data

Wave length range	220 – 780 nm 400 – 1100 nm
Spectral resolution	< 7 nm
Pixel resolution	2.2 nm
Wave length accuracy	0.2 nm

Spectrometer

Drift compensation	Internal reference
Light source	Xenon flash lamp
Integration time	Adjustable from 1.5 ms to 6 s
Ambient temperature	5 to 40° C
Power supply	24V AC/DC
Number of measuring points	Up to 6
Measurement modes	Transmission, transfection and ATR

Communication

Data transfer	8* 12 bit 4-20 mA-outputs (potential free) 4 digital inputs and 4 digital outputs (potential free) RS-232 serial Profibus (optional)
Visualization (optional)	15"-TFT-monitor with touch screen (not Ex) 15"-Ex-remote station EEx d [ia] IIC T6

Other

Ex-protection (optional)	EEx d IIC T6
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Total Service – from Spectrometers to a Complete Range of Accessories

We offer much more than just process spectrometers. Our fiberoptic probes and comprehensive accessory program include everything you need to implement a measuring point directly into your process.

Ask us about the optimal solution for you.



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