Turbidity Analyser

Turbidity Analyzer uses light in the near infrared (NIR) range from 730 to 970 nm. A precisely defined, constant light beam penetrates the liquid sulphur. Light scattered from particles in the medium is detected by eight hermetically-sealed silicon photo diodes at an angle of 11°. Simultaneously, the unscattered light is detected by a reference photo diode. If sulphur turbidity reaches an unacceptable level, the flow can be automatically recirculated or switched off.

Turbidity is only linked to total suspended solids (TSS); it relates to the loss of transparency due to the effect of suspended particulates like ash or filter aid. The increase of turbidity results in less clarity or clearness.

Control module

Displays the ash concentration in real-time as text or graphics. Unit of measurement is ppm. The system can be supplied with a 316SS housing as well as a 19'' rack version. It has 4-20mA outputs and 3-relay outputs, which can be used for alarm.

Features

- **High quality materials**
  - Suitable for toughest process conditions, including high temperatures.
- **Real-time ash level monitoring**
  - Allows operators to control product clarity
- **Measures low ppm range**
  - Particles can be measured in the range of 0-0,5 ppm
- **No calibration required**
  - Reliable measurement and efficient operation
- **Use of inline turbidity**
  - Reduces laboratory and maintenance costs and eliminates human errors

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