



CHEMICAL SUPPORT SYSTEMS

DESIGN / ENGINEER / MANUFACTURE / INSTALL

Turbidity and Suspended Solids Monitor

With out Turbidity and Suspended Solids analyser you get a world's first sensor. The first sensor to successfully incorporate four measuring technologies. For multiple measuring ranges the one sensor can monitor Turbidity and Suspended Solids from 0.1 NTU to 2% solids in one sensors

- Autoclean optical sensor
- Stable and reliable – excellent process control
- Suitable for all potable, waste and process waters
- Up to 6 months between maintenance
- Up to 3 months between calibration
- From 0.1 NTU to 2% solids
- Up to 10 Bar

To be used in combination
with CSS Analyser



Multi-beam technology

Each probe is equipped with 2 light sources and 4 detectors. Each light source uses long-life emitters (at least 20,000 operating hours), which are turned off when not required to conserve energy and extend the life of the sensor.

By using multiple light emitters and detectors in a single probe, it is possible to:

- Measure solids from 0.1 NTU to 2% solids
- Monitor and compensate for fouling of the optics

- Monitor and compensate for ageing of the optics
- Measure and forward scattering of light (low NTU values)
- Measure the side scattering of light (ISO7027 requires a 90° side scatter measurement). (NTU)
- Measure transmitted light (low % solids)
- Measure the back scatter of light (high % solids)

Specification

Signal

Up to four user selectable outputs, which are proportional to the measured concentration range selected.

Range

Selectable 0.1 NTU to 25% Dry solids

Typical ranges

0.1–10 NTU, 0.1–100 NTU, 0.1–4000 NTU, 0–2% solids

Accuracy

<1% of measuring range end value

Reproducibility

0.5%

Weight

Installation type ca. 1.5kg Immersion type ca. 0.5kg

Comms

TCP/IP, Modbus, RSS232, RS485, 4–20mA

Power supply

100–250V AC (50/60Hz), 8–36V DC

Ambient temperature

–20°C - +50°C

Process Temperature

0–50°C

Lamp source

IR LED

Housing Materials

Wetted parts, stainless steel, quartz glass and polypropylene

Cleaning cycles

User settable cleaning cycle time and cleaning time

Cleaning

Autoclean water or air jet

Reliability

Simplified design with no moving parts

Durability

Hard-wearing stainless steel/epoxy/quartz glass

Pipe options

Pipe connection, pipe insertion or immersion versions to suit application

Enclosure rating

IP65

Display

Value and alarms at the same time

Resolution

0.1 NTU (0–100 NTU sensor)

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