ValvesSensorsSystems

measurIT technologies

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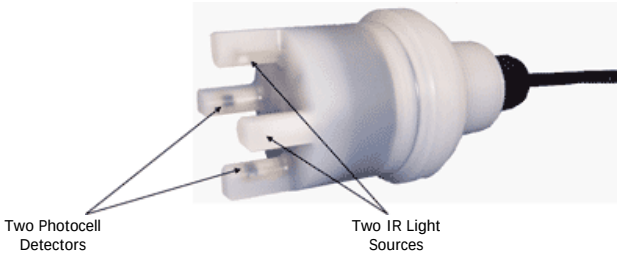
Suspended Solids & Turbidity Sensors
Measurement & Control

Suspended Solids Sensors - Operating Principle
This is based on the fundamental method of suspended solids measurement which is to shine a light of known intensity a fixed distance through a medium to a photocell detector.

The suspended solids in the medium absorb some of the transmitted light. The detector current gives a measure of the absorption which corresponds to suspended solids measurement.



The alternating light principle design improves the measurement reliability and span stability of optical suspended solids instruments. By using two light sources and two detectors, Quadbeam™ sensors automatically compensate for component ageing, sensor fouling and daylight interference.

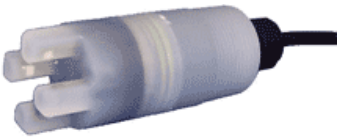
Read in details about the Alternating Light Principle.

Quadbeam™ Sensors operate in the near infrared range of 880nm. This is outside the visible light wavelength of 400 to 700nm to eliminate the effect of color.

The sensors measuring range and sensitivity is determined by the distance between the light source and the detector. The sensor with the longer path length is more sensitive to low levels of suspended solids, therefore it has the ability to detect small changes in concentration.

Series of Quadbeam™ sensors:
- S10 sensors for measurement of suspended solids to 25g/l,
- S20 sensors for measurements of suspended solids to 10g/l,
- S40 sensors for measurements of suspended solids to 2.5g/l,
- T30 sensors for measurements of turbidity.

All the sensors are available in:
Immersion style: a general purpose design commonly used in water, wastewater, mining and chemical industries.
Hygienic style: to meet the requirements of the food industry.



Series S20
Immersion Sensor

Series S20
Hygienic Sensor

Pinch Valve Sleeves

Accurate & repeatable flow control.
Drop tight, bi-directional shut-off.
Abrasion resistant & self-cleaning.

The sleeve is the heart of every **Pinch Valve**, providing the valve lining, flange gaskets, and seating surface all in one. It's 100% full-port, and is like a pipe in-line.

Read more at **www.measurIT.com**

OUR PRODUCTS

Systems of Valves
- **Tideflex** Mixing Systems
- **Tideflex** Effluent Diffusers

Valves
- Control valves - **Singer**
- Pinch valves (manual, air-operated)
- All-Rubber Check Valves - **Tideflex**

Sensors
- Oil Spill Detector - **OilSpy**
- Flow Conditioners - **VORTAB**
- Flow Meters - **FCI** (Thermal Dispersion)
- Flow Meters - **Accelabar** (Nozzle + Pitot)
- Flow Switches
- Pressure & Temperature Switches
- Level Transmitters
- pH Sensors

Read more at **www.measurIT.com**

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Read more about **Suspended Solids & Turbidity Sensors** at our website.

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