



QUADBEAM TECHNOLOGIES

~ Specialists in process suspended solids & turbidity ~

Immersion Sensors

Immersion style sensors are designed for continuous on-line monitoring of suspended solids in industrial/municipal water and waste water treatment plants.

Applications:

- Effluent monitoring in clarifier overflow weirs
- Raw water inlet turbidity measurements in water treatment plants
- Final effluent monitoring
- White water solids concentration



Hygienic Sensors

Hygienic style sensors are designed for installation directly into food product lines where CIP cleaning is used.

One piece polypropylene construction with a surface finish of better than $Ra = 0.9\mu m$ eliminates bacteria traps.

Industry standard 3" Triclover connections.

Applications:

- Product breakthrough on plate heat exchangers.
- Solids content in whey



Series 40 Sensors

- 'QuadBeam' optical systems use 2 pairs of infrared light emitting diodes and photodetectors which are pulsed in sequence.
- Ratiometric signal processing compensates for changes in the optical properties of the emitters and detectors due to ageing and surface coating.
- Effects of colour, temperature and changes in background ambient light are virtually eliminated.
- Designed for use with the Quadbeam MSSD53 microprocessor based transmitters providing both relay and/or analogue outputs.
- Physical dimensions and electrical characteristics are compatible with sensors from other suppliers allowing direct replacement.

SPECIFICATIONS

Measuring Range:

Immersion Sensor
0 to 2.5g/l in normal activated sludge

Hygienic Sensor: 0 to 1.5% milkfat

(The measuring ranges can vary according to media and particle characteristics)

Accuracy:

+/-2% of reading

Repeatability:

+/-1% of reading

Temperature:

0 to 85°C operating range

Pressure:

10 BarG

Cable:

Polyurethane covered cable rated to 95°C. Extension cables can be supplied to extend the cable length up to a maximum of 100M.

MODEL NO. SELECTION GUIDE

Body Style:

S40-IMM - Immersion style body

S40-3HY - Hygienic style body with 3" Triclover fitting

Wavelength:

880nm - Standard. Other wavelengths available.

Body Material:

PP - Polypropylene

Cable:

10 - Immersion sensors are supplied with a 10m cable as standard. Other lengths available.

1 - Hygienic sensors are supplied with a 1m cable as standard. Other lengths available.

Connector:

NC - No Connector. Cores stripped and tinned for direct connection to MSSD33/53 transmitters.

CA - Amphenol Connector. Standard for Hygienic sensors.

CS - Schaltbau Connector. For use with BTG/Zellweger Analytics transmitters.

Sample model no: S40-IMM-880-PP-10-CS

Optional extras - to mount Immersion sensors into pipes or vessels, 50mm flanges or adapters for Triclover, RJT and DIN11851 fittings are available.

Immersion Sensor

Hygienic Sensor

