



QUADBEAM TECHNOLOGIES

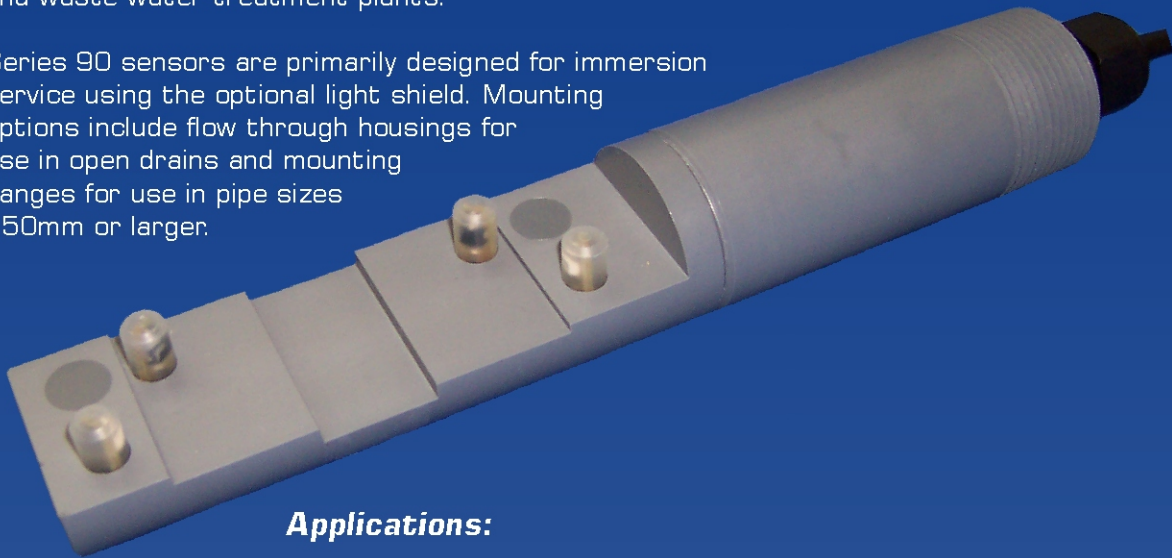
~ Specialists in process suspended solids & turbidity ~

Series 90 Sensors

Series 90 Sensors are designed for continuous on-line monitoring of suspended solids in solution. The long optical path length gives them the required sensitivity for low turbidity measurements.

All Quadbeam™ Technologies sensors use the same optical components and are made of the same rugged construction making them ideal for use in industrial and municipal, water and waste water treatment plants.

Series 90 sensors are primarily designed for immersion service using the optional light shield. Mounting options include flow through housings for use in open drains and mounting flanges for use in pipe sizes 150mm or larger.



Applications:

- Monitoring of clarifier overflow weirs in waste water treatment plants
- Final outlet of effluent from dissolved air floatation plants
- Raw water inlet measurements in water treatment plants
- Surface water monitoring
- Solids loading in rivers and streams
- Product breakthrough on plate heat exchangers

Quadbeam™ 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:

0 to 50 through to 0 to 1000
FTU/NTU. (The measuring ranges can vary
according to media and particle characteristics)

Accuracy:

+/-2% of reading

Repeatability:

+/-1% of reading

Temperature:

0 to 65°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:

S90-IMM - Immersion style body

Wavelength:

880nm - Standard. Other wavelengths available.

Body Material:

PVC - Polyvinyl Chloride

Cable:

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

Connector:

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

CA - Amphenol Connector.

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

Sample model no: S90-IMM-880-PVC-10-NC

Optional extras:

Light shield

Cleaner

Flanges/Adapters - to mount Immersion sensors
into pipes or vessels, 50mm flanges or adapters
for Triclamp, RJT and DIN11851 fittings are
available.

Series 90 Immersion Sensor

