

## S20 Suspendid Solid Sensor

Measurement range 0 - 10 g/l in normal activated sludge

### Immersion Sensors

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

Applications:

- Mixed Liquor Suspended Solids (MLSS)
- Return Activated Sludge (RAS)
- Sludge Blanket Detection
- Product loss monitors in milk processing plants



### 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. 3A certified.

Industry standard 3" Triclover connections.

Applications:

- Extensively used in the dairy industry for milk fat measurements.
- Percentage solids in fruit & vegetable juices



### Series 20 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 10g/l in normal activated sludge

Hygienic Sensor:

0 to 20% milkfat

(The measuring range will 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

## MODEL NO. SELECTION GUIDE

### Body Style:

**S20-IMM** - Immersion style body

**S20-3HY** - Hygienic style body with 3" Triclover fitting

### Wavelength:

**880nm** - Standard. Other wavelengths available.

### Body Material:

**PP** - Polypropylene

### Cable:

**10** - Both immersion and hygienic sensors are supplied with a 10m cable as standard. Other lengths available.

### Connector:

**NC** - No Connector. Cores stripped and crimped for direct connection to MSSD53 and MXD transmitters.

**CA** - Amphenol Connector. For use with Hygienic sensors using extension cables.

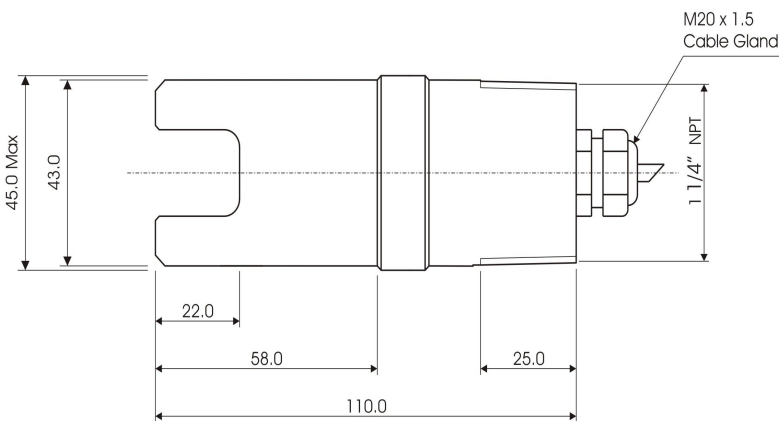
Sample model no: S20-IMM-880-PP-10-NC

### Optional Extras:

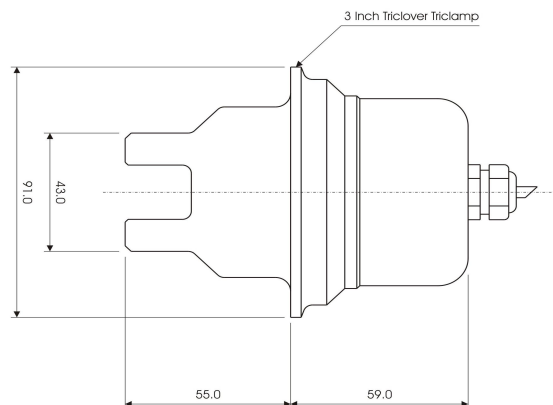
**Cleaner** - Powered using air at 10 Bar.

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

Immersion Sensor



Hygienic Sensor



\* Due to our policy of continuous improvements, specifications are subject to change without notice.  
19/11/12