

## T30 Turbidity Sensor

Get better control of your suspended solids and turbidity, control your losses, control product change, control concentration, control dosing - accurately and repeatedly.

- Ratio-metric four beam signal processing compensates for changes in optical properties of emitters and detectors due to ageing and surface coating.
- Effects of colour, temperature and changes to background ambient light are virtually eliminated.
- Both Immersion and Sanitary configurations.
- Simple user interface. The T30 sensor is designed for use with the Quadbeam MXD75 or MXD73 microprocessor
- Accurate, repeatable & reliable.

### T30 Measurement range 0 to 50 through to 0 to 1000 FNU/FTU/NTU

The T30 turbidity sensor has two emitters and two detectors, set at exactly 90 degrees to each other.

As each emitter is pulsed in sequence it produces two detector currents, one from the detector opposite the emitter (attenuation) and the other from the detector at 90 degrees to the emitter (scattered light).

A built in cleaner is standard with the immersion version of the T30. High pressure air with optional biocide is the recommended method of cleaning. The stainless steel support rods are designed to lift the sensor fingers above the floor of the drain and to protect the sensor fingers from impact. Signals from each detector are fed into the microprocessor which calculates the value of Turbidity from the ratio of the two emitter/detector pairs.



T30-3HY



T30-IMM

#### T30 Applications include;

- Monitoring of clarifier overflow weirs
- Raw water inlet turbidity measurement to water treatment plants
- Surface water monitoring
- Solids loading in rivers and streams
- Condensate Water (COW water) monitoring
- Final outlet of effluent from DAF plants
- Percentage solids in fruit and vegetable juices.
- Product breakthrough on plate heat exchangers
- Filtration Monitoring and control

## Specifications

### Measuring Range

0 to 50 through to 0 to 1000 FNU / FTU / NTU

(the measuring range will vary according to media and particle characteristics)

### Accuracy

+/- 2% of reading

### Repeatability

+/- 1% of reading

### Temperature

0 to 80°C operating range

### Pressure

10 Bar

### Cable:

Polyurethane covered cable rated to 95°C.  
Extension cables can be supplied to extend the cable up to 50M.

### Transmitter

Quadbeam MXD75 or MXD73

## Model No. Selection Guide

### Body Style

**T30-IMM** - Immersion style body

**T30-3HY** - Hygienic style body with 3" Triclover fitting

### Wavelength

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

### Material

Body - **PP** - Polypropylene

Fingers - Polysulfone

### Cable

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

### Connector

**NC**- No Connector. Cores stripped and crimped for direct connection the MXD Transmitters

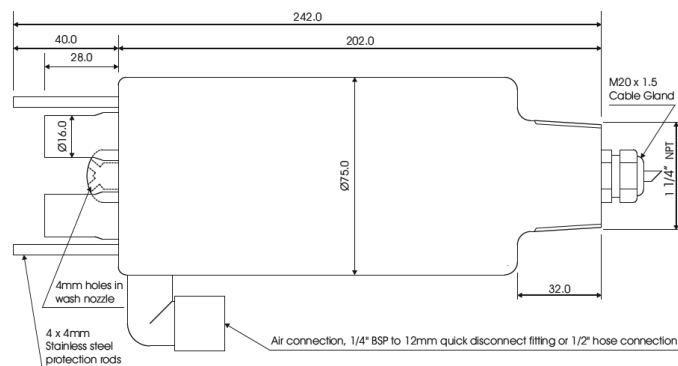
**CA** - Amphenol Connector. For use with Hygienic sensors using extension cables.

Sample model no; T30-IMM-880-PP-10-NC

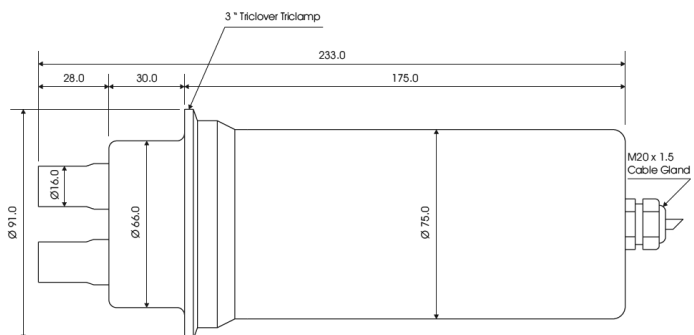
### Optional Extras:

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

Immersion



Hygienic



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