

## Optical Suspended Solids or Consistency Sensor



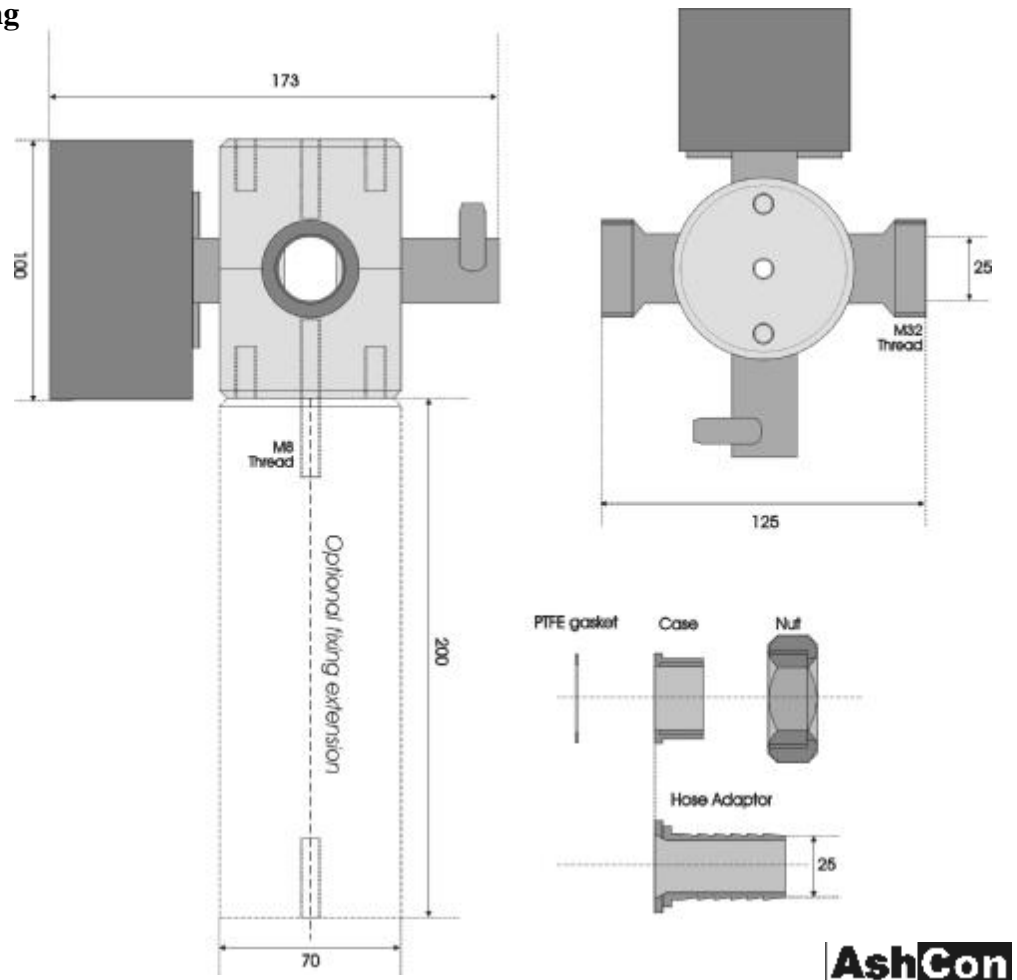
### **AshCon** Product Description

The Ashcon AC200 sensor measures the consistency or suspended solids of process streams. The sensor uses a high-energy pulsed *nIR* diode light source with dual measurement channels. The sensor is factory pre-calibrated on a custom material mix to simplify on-site calibration. The sensor automatically compensates for process temperature changes as well as component drift with a reference correction of the light source. An automated brush cleaner mechanism can be fitted to the sensor as well as water back flush. The operator interface allows mill lab. to sensor calibration values to be entered as well as any grade-specific measurement compensation. Optional polarised filter channels can be fitted for fibre/ash determination.

### Typical Applications

The Ashcon AC200 sensor is normally used to measure environmental process streams. Common applications are around DAF units and fibre / water recovery systems. It can also be used on mid-range (20g/L) consistency fibre lines such as screening applications. It can be installed within environmental measurement system that includes; process sample handling, automated cleaning and signal processing.

## Product Drawing



**AshCon**

## Technical Specification

Measurement: Optical transmission of near infra-red light. (optional depolarised channels)

Optical Gap: 20mm with Venturi from 25mm bore

nIR source: GaAs Diode, typically 880nm wavelength

Range: 0 – 500mg/L up to 2%Cs. / 20g/L (Total)  
0 – 20g/L Solids (typical) = 4-20ma signal

Accuracy: Within 3% of range (lab. to sensor 2sigma)

Flow rate: 10 L/min to 50 L/min (min. to max.)

Pressure: PN10 (146 psi.g. / 10 bar.g.)

Temperature: 0 – 80 deg. C (max.)

Material : Wetted parts 316 St.Steel

Weight: 3 Kgs

Connection: 8 core plug (IP65)

Cable: 5 Metres (std.) upto 15 Mtrs

Protection: IP65 (NEMA 4X)

Mount: 4 by M8 Threads (sensor) or  
Extension fixing (optional)

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