

PERMANENT INSTRUMENT

ECOLACT

New stainless Suspended Solid sensor for dairy processing applications

- STUDY, WATERTIGHT, EASY TO INSTALL
- WIDESCREEN GRAPHIC DISPLAY: INSTANT MEASUREMENTS, TREND LINE, CALIBRATION STATE
- QUICK AND SIMPLE INTUITIVE PROGRAMMING
- 4-20 mA OUTPUTS, PROGRAMMABLE RELAYS



Technical specifications	
Suspended solids measurement range	0.00 to 50.00g/l
Suspended solids measurement accuracy	±0.2g/l [0.00-50.00g/l]
Temperature measurement range	-10.00 to +50.00 °C
Temperature measurement accuracy (°C)	±0.1 °C
Casing	ABS
Protection	IP 65
Operating temperature	-25 °C to +55 °C
Dimensions (L x W x D) /Weight	173 x 195 x 103mm / 1.5kg
Display	Widescreen back-lit graphic display: 240 x 128 pixels (108 x 58mm)
Power supply	230/115 Vac 60Hz, Optional: 24Vdc
Max power consumption	10VA
4-20 mA outputs	2 galvanic isolation outputs (max load 700ohms): - Adjustable from 0.00 to 50.00g/l - Adjustable from -10.00 °C to +50.00 °C

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Relay outputs	2 relays that can be configured in 3 different modes: - Adjustment in alarm mode (1 suspended solids and 1 temperature (°C) threshold) - Adjustment in adjustment mode (2 suspended solids thresholds) - Adjustment on 1 High threshold/Low threshold relay - forced Start-up/Shutdown
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Simple, sturdy and reliable like its legendary predecessor, the APF series, with additional digital intelligence and leading-edge technology.

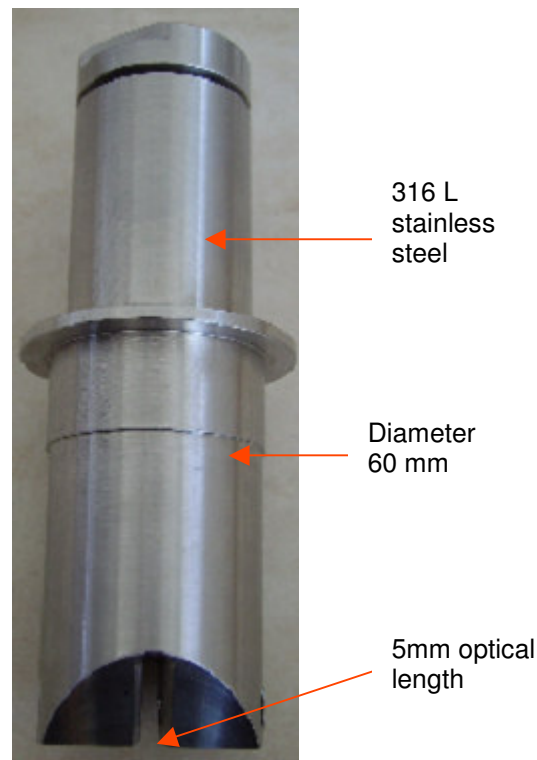
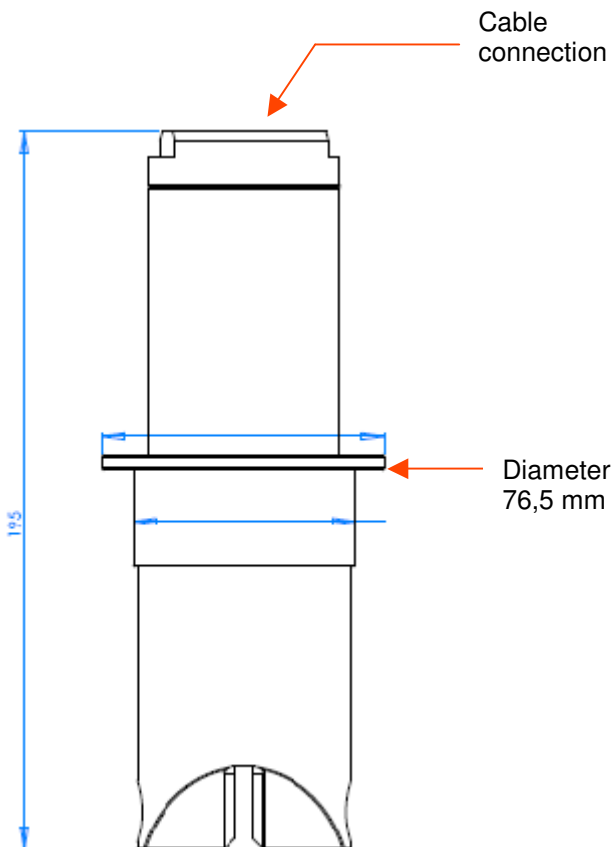
Fields of application :

The new MES INOX Stainless steel suspended solids sensor can be used in dairy processing to detect milk solids and serum in the following applications:

- Reservoir washing after cleaning process (indicates when reservoir no longer contains matter) ;
- Production process line leak detection and alarm for production optimisation ;
- Inlet waste water monitoring leak detection and alarm for Biomass protection and/or reject control...

Suspended Solid Sensor

The standard ECOLACT system comes with the MES5-INOX sensor for production process applications.



MES5-INOX sensor Technical Specifications	
Suspended solids measurement range	0.00 to 50.00g/l
Measurement principle	Optical absorption of infrared light, regulated and pulsed emission (10Hz frequency)
Temperature compensation (°C)	Automatic, by NTC thermistor from +5 to +30°C
Emission wavelength	950nm (infrared)
Dimensions	Length: 195mm x 60mm diameter (76.5mm shoulder diameter)
Weight	3,5 kg
Materials	316 L stainless steel and special glass
Cable	Multiple coated wires, polyurethane sheath. 10m standard length (up to 100m on request). Removable cable
Operating temperature	-25 °C to +90 °C
Operating pH range	2 to 14

The MES 5 INOX sensor consists of three parts:

The sensor head

The sensor is cylindrical and has a diametral cavity with parallel walls (optical length 5mm). Two O-ring mounted quartz disks let the radiation through while protecting the different diodes. This assembly is designed to absorb thermal shocks and allows the sensor to operate up to 100°C.

The sensor body

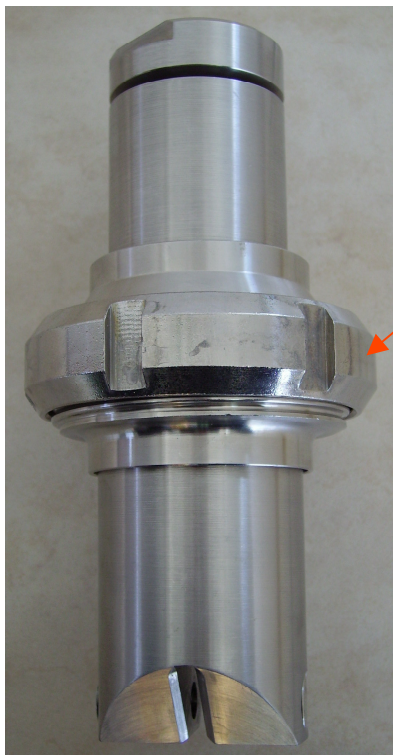
Equipped with a set of electronic boards, diode feeds and signal and amplification processors, the sensor body can be positioned up to 100m from the transmitter.

The sensor's dimensions mean it can be easily installed in production pipelines via SMS and SKAMI connectors.

The sleeve

Where the electronic boards are connected to the coated cable. A cable gland is used to keep it watertight.

Installation with an SMS connector



SMS 316 Stainless steel connector
Diameter 63/2"1/2

