PRODUCT DATA SHEET

PERMANENT INSTRUMENT

ACTEON 2051-SSSC-T

New suspended solids and temperature measurement field transmitter (self- cleaning)

- Sturdy, watertight, easy to install
- Widescreen graphic display: instant measurements, trend line, calibration state
- Quick and simple intuitive programming
- 4-20 mA outputs, programmable relays

PONSEL
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Technical specifications	
Suspended solids measurement range	0.00 to 10.00g/L
Suspended solids measurement accuracy	± 0.1g/l
Temperature measurement range	-10.00 to +50.00℃
Temperature measurement accuracy (℃)	± 0.1 ℃
Casing	ABS
Protection	IP 65
Operating temperature	-25℃ to +55℃
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
4-20mA outputs	2 galvanic isolation outputs (max load 700ohms): - Adjustable from 0.00 to 10.00g/L - Adjustable from -10.00℃ to +50.00℃
Relay outputs	2 relays that can be configured in 3 different modes: - Adjustment in alarm mode (1 suspended solids and 1 temperature (℃) threshold) - Adjustment in adjustment mode (2 suspended solids thresholds) - Adjustment on 1 High threshold/Low threshold relay – forced Start-up/Shutdown

Simple, sturdy and reliable like its legendary predecessor, the APF series, with additional digital intelligence and leading-edge technology.

Fields of application:

Using the new ACTEON 2051 as a fixed unit optimizes the measurement and regulation processes of suspended solids in the following fields:

Wastewater treatment, (input/output controls, aeration and anoxic tanks, sludge return, etc.)
Industrial effluent treatment (input/output controls, biological treatment regulation, etc.)

The optics are cleaned by a fast-action scraper. This is a polyurethane scraper powered by a stainless steel piston. When the scraper is at rest, it is completely embedded in its housing. This piston system (Ponsel invention) prevents fibres from getting entwined around the axle. A control unit (SNA) can be used to program how often the cleaning is to be carried out: 5 strokes every 15, 30, 60 minutes.

SNA unit: Electronic box for controlling the turbidity probe's self-cleaning system.
Dimensions: (l x w x d): 120 x 160 x 130mm
Weight: 0.420kg
Materials: Reinforced polyester with transparent cover. IP65

The standard ACTEON 2051 unit comes with a MES10-NA sensor with a 10-meter cable connection.

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Suspended solids sensor: PONCIR-MES10-NA-10

Measurement principle: Optical absorption of infrared light, regulated and pulsed emission (10Hz frequency)

Dimensions: Length: 253mm, diameter: 73.2 mm

Weight: 1kg

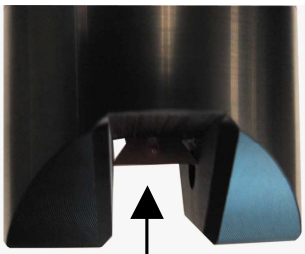
Materials: PVC and special glass, IP68

Temperature compensation (℃) : Automatic, by NTC thermistor from +5 to +30℃

Emission wavelength: 950 mm (infrared)

Cable: Multiple coated wires, polyurethane sheath. 10m standard length (up to 100m on request)

***Installation options**: Fixed sensor-holder perch acces -sories for in-pipe installation.*



Temperature Sensor:

Delrin, Stainless steel, Silicone - IP68
Dimensions: Diameter 3mm (sensor), Length 115mm
Weight: 40g
Cable: 10m standard length

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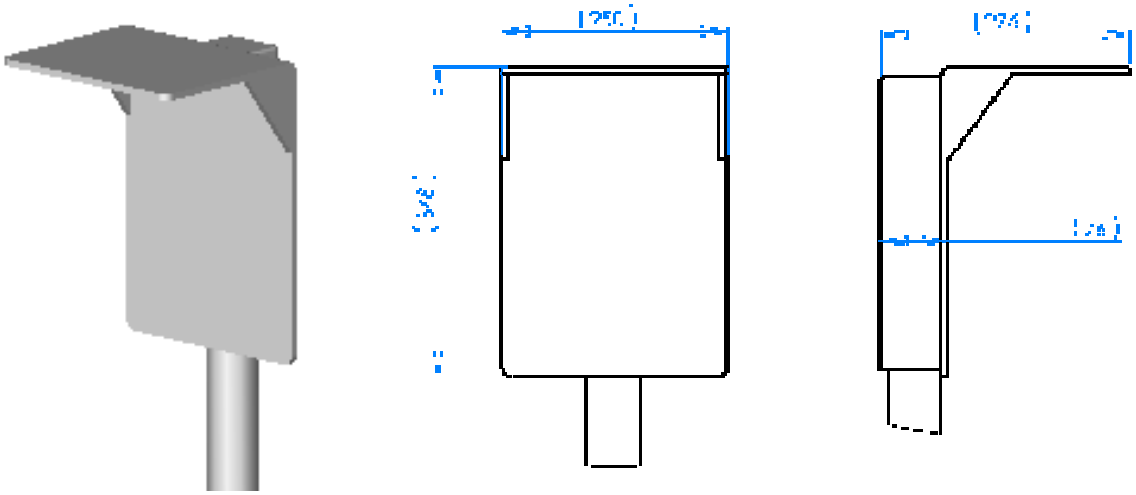
Accessories for electronic unit installation :



Hood mount for the ACTEON 2051 transmitter (**PON-PDPCV-1** for 1 transmitter and **PON-PDPCV-2** for 2 transmitters).

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