



# 8100 Monitor

## Single Channel Monitor for Fixed Point Sludge Detection

PRODUCT DATASHEET

### APPLICATIONS

Final Settlement Tanks  
Primary Settlement Tanks  
WRc Thickeners  
Clarifiers  
Lamella Separators

### FEATURES

Simple to use  
Very Low cost of ownership  
Fault Alarm

### BENEFITS

Early Warning of Blanket Failure  
Automatic De-sludging

### COMPATIBLE SENSORS

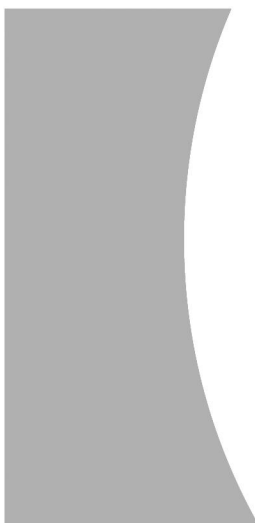
Soli-Tech 20v2 Sensor  
Infrared Sensor



The 8100 Monitor provides a reliable method of detecting the sludge blanket level in clarifiers and settlement tanks, or increasing levels of suspended solids or sludge density in a large range of processes.

Control of the sludge blanket level is essential to ensure discharge consent compliance and efficient control of the treatment process. If the sludge blanket in a settlement tank is allowed to rise close to the surface there is a danger that solids will leave the tank and contaminate the next process stage or be discharged into the water course. Alternatively, if the sludge blanket is not allowed to stabilise or form a blanket or is pumped out too frequently the settlement process does not take place at all and solids will remain in suspension. Additionally there is a danger that thin sludge or water will be pumped from the bottom of the tank into the sludge handling system thus reducing the effectiveness of that process.

The 8100 Monitor is suitable for mounting outdoors on the bridge of settlement tanks, as the enclosure is IP65 rated and no outer enclosure is required. Provision must be made for transmission of the output signal to the control system; this is normally possible via spare slip rings. Where this is not possible a radio telemetry option is available, allowing transmission directly to the control system without the need for installation of cables.



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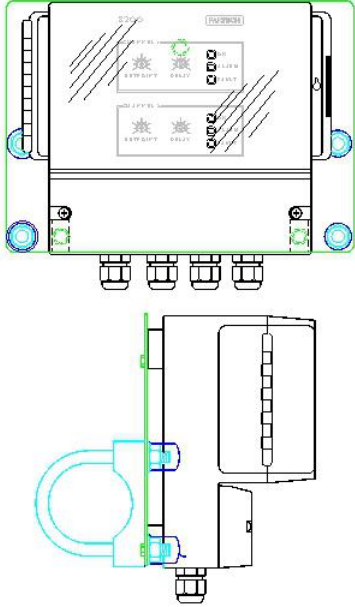




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Monitor shown with mounting bracket part number 224370

### Physical

Dimensions (h x w x d)	160 x 195 x 105 mm (HxWxD)
Weight	1 kg
Protection Class	IP65
Enclosure Material	ABS
Cable Entries	4 x M20 (cable 5 to 10 mm)
Cable Size	Max Conductor Cross Section 2.5 mm <sup>2</sup>

### Environmental Data

Operating Temperature	0 to 50°C
Storage Temperature	-20 to 60°C
Location	Indoor or Outdoor

### Power Supply

Voltage	100-240 VAC +10/-15% or 9-36 VDC
Power Consumption	8W
Fuse	500 mA

### Measurement Details

Response Time	1 to 90 seconds
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### Outputs and Set Points

Analogue Output	None
Relays	2
Contacts	SPCO
Rating	5A @ 230 VAC, 5A@125 VDC
Type	1 High Blanket Alarm, 1 Fault Alarm
Adjustment	5 - 95% Sensor Range
Local Annunciation	Green LED for Normal, Red LED for Blanket Alarm, Amber LED for Fault

### Serial Communications

Profibus	Available via WAGO interface modules - PN225811
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### User Interface

Display	3 LED's
Setup	Front Panel Trim Adjustments

### Mounting

Type	Surface
Bracket/Plate	Part Number 171280 for attachment to handrail

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