



8100 Monitor

Monitor for Fixed Point Sludge Detection

PRODUCT DATASHEET

APPLICATIONS

Final Settlement Tanks
Primary Settlement Tanks
WwRc 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

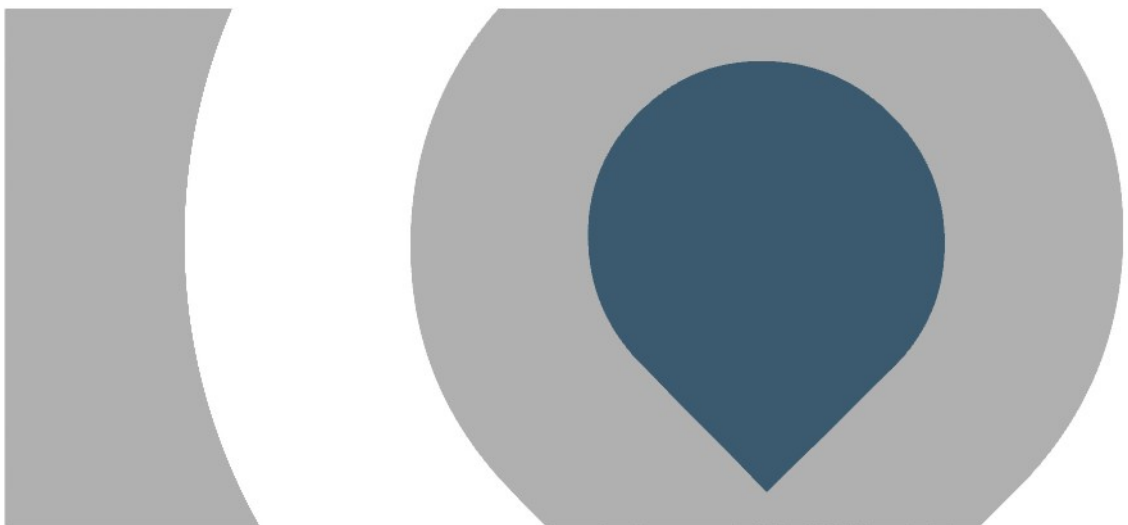
Soli-Tech 20 Sensor
Infrared Sensor



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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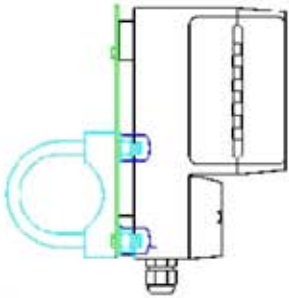
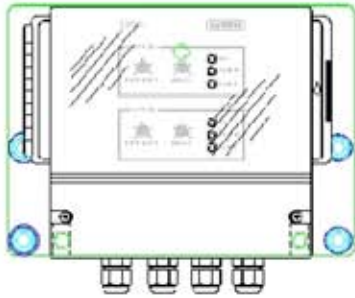




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Monitor shown with mounting bracket part number 171280

Specification

Physical

| | |
|------------------------|---|
| Weight | 1 kg |
| Dimensions (h x w x d) | 160 x 195 x 105 mm |
| Enclosure Rating | IP65 |
| Enclosure Material | ABS |
| Cable Entries | 4 x PG11 (cable 5 to 10 mm) |
| Cable Size | Max Conductor Cross Section 2.5 mm ² |

Environmental Data

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

Power Supply

| | |
|-------------------|---|
| Voltage | 115/230 VAC +10/-15% Field Selectable, 12 and 24 VDC options available |
| Power Consumption | 8W |
| Fuse | 100 mA |

Measurement Details

| | |
|---------------|-----------------|
| Response Time | 1 to 90 seconds |
|---------------|-----------------|

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

| | |
|----------|---------|
| RS232 | Pending |
| Modbus | Pending |
| Profibus | Pending |

User Interface

| | |
|---------|------------------------------|
| Display | 3 LED's |
| Setup | Front Panel Trim Adjustments |

Software

| | |
|--------------------|----|
| Remote Programming | No |
|--------------------|----|

Mounting

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

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The company reserves the right to alter the specification without prior notice. E&OE

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UV DISINFECTION · MONITORING · CONTROL

12 Carl Court, Hallam, Vic. 3803, Australia
03 8795 7711 | www.fluidquip.com.au | fluidquip@fluidquip.com.au

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