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BESTOBELL AQUATRONIX
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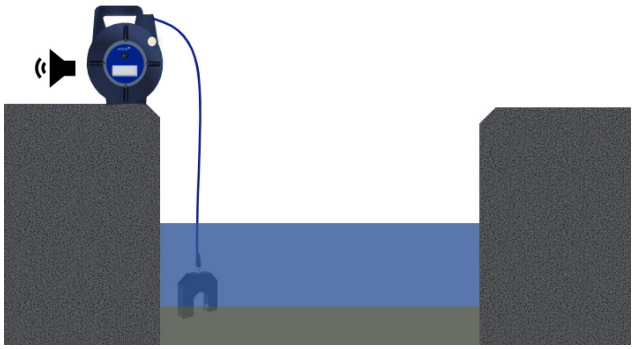
# SludgeWatch 715 Sludge Blanket Detector

**THE SLUDGEWATCH 715 PROVIDES A SIMPLE, LOW COST METHOD OF SPOT CHECKING THE SLUDGE BLANKET LEVEL IN A WIDE VARIETY OF SETTLEMENT TANKS. THE SLUDGE BLANKET IS DETECTED BY WINDING THE SENSOR DOWN INTO THE TANK. THE AUDIBLE TONE CHANGES AND THE LED ILLUMINATES ONCE THE SENSOR HAS REACHED THE BLANKET.**



## SIMPLIFIED APPLIANCE USAGES

- The SludgeWatch 715 simplifies the process of finding the sludge blanket by emitting an audio beep.
- Simple on/off interface. No software or additional device needed to get a measurement.
- The product is available in feet or metre markings to provide dependable, easy-to-read depth indication.

## NOT OPERATOR DEPENDENT

- The SludgeWatch 715 uses infrared attenuation technology to guarantee repeatable and immediate sludge detection at every measurement.

## IMPROVED TANK DESLUDGING

- This method of sludge blanket detection offers major improvements over traditional systems in terms of both repeatability and health and safety - no more handling tubes full of contaminated wastewater.

## TOTAL FIELD SUPPORT

- Technical support is just a phone call away.

## Applications:

- **FINAL SETTLEMENT TANKS**
- **PRIMARY SETTLEMENT TANKS**
- **WATER TREATMENT - CLARIFIERS**
- **THICKENERS**
- **LAMELLA SEPARATORS**

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# SludgeWatch 715 Sludge Blanket Detector

| GENERAL | SludgeWatch 715 Sludge Blanket Detector | | |
|---|---|---|---|
| OPERATING TEMP. | 0 to 50°C (32 to 140°F), limited by risk of ice formation interfering with measurement | BATTERY LIFE | 6 months typical use |
| DIMENSIONS | 280 mm (11") x 230 mm (9") x 130 mm (5.1") (H x W x D) | DISPLAY | Front Panel LED - 'ON' in Sludge |
| WEIGHT | 1.7 kg ( 3.74lbs) | ACCURACY | ± 1 cm (0.3") of interface |
| PROTECTION CLASS | Electronics: IP54 Sensor: IP68 | PRINCIPAL OF OPERATION | Light Attenuation |
| ENCLOSURE MATERIAL | Dark Blue Nylon | WAVELENGTH | 960nm Infrared |
| AUDIBLE OUTPUT | Short Tone in Water<br>Long Tone in Sludge | RESOLUTION | Standard Cable markings every 1.0 metres or every 1 foot |
| POWER SUPPLY | 9V Battery (PP3) | RESPONSE TIME | 0.5 seconds |

| STANDARD SENSORS | DIMENSIONS | WEIGHT | OPTICAL PATH | RANGE | CABLE LENGTH | SERVICE REQUIREMENT |
|---|---|---|---|---|---|---|
| IR8 Sensor | 95 (3.7") x 8 (0.3") x 25 (0.9") mm | 0.7 kg (1.54 lbs) inc 10m of cable | 8mm | 0 - 30,000 | 10 metres (32.8 ft) standard | No routine servicing |
| IR15 Sensor | 95 (3.7") x 15 (0.6") x 25 (0.9") mm | 0.7 kg (1.54 lbs) inc 10m of cable | 15mm | 0 - 10,000 | 10 metres (32.8 ft) standard | No routine servicing |
| IR40 Sensor | 95 (3.7") x 40 (1.6") x 25 (0.9") mm | 0.7 kg (1.54 lbs) inc 10m of cable | 40mm | 0 - 1,500 | 10 metres (32.8 ft) standard | No routine servicing |
| IR100 Sensor | 95 (3.7") x 100 (3.9") x 25 (0.9") mm | 0.7 kg (1.54 lbs) inc 10m of cable | 100mm | 0 - 200 | 10 metres (32.8 ft) standard | No routine servicing |
| WARRANTY | 2 years | | | | | |

| SENSOR | SETPOINT (NOT USER ADJUSTABLE) | TYPICAL APPLICATIONS |
|---|---|---|
| IR100 - Range 0 to 200mg/l<br>The sensor should only be used if the sludge is very 'light' with very clear supernatant. | Setpoint very approximately - 100 mg/l | Water Treatment |
| IR40 - Range 0 to 1,500mg/l<br>This is the most commonly used sensor and is suitable for use on final settlement tanks in sewage treatment applications and clarifiers in water treatment works. | Setpoint very approximately - 750 mg/l | Water Treatment Clarifiers<br>Sewage Treatment Final Settlement<br>Humus Tanks |
| IR15 - Range 0 to10,000mg/l<br>This sensor is also regularly used for sludge blanket detection and is normally used for primary settlement in sewage treatment and sludge thickeners in water treatment. | Setpoint very approximately - 5,000 mg/l | Water Treatment Sludge Thickeners<br>Sewage Treatment Primary Tanks |
| IR8 - Range 0 to 30,000mg/l<br>This sensor should be applied on sludge thickeners in sewage treatment plants. | Setpoint very approximately - 15,000 mg/l | Sewage Treatment Thickeners |

Note: Sensor ranges and detection points are appoximate and depend on the site-specific nature of the treatment process.


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