

Sludge Watch 715 DATASHEET

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SludgeWatch 715

Portable Sludge Blanket Detector

PRODUCT DATASHEET

APPLICATIONS

Sewage Treatment – Final Tanks
– Primary Tanks
Water Treatment – Clarifiers
– Thickeners
Lamella Separators
WRc Thickeners

BENEFITS

Reliable, Repeatable Measurement
Not Operator Dependent
Improved Tank Desludging

FEATURES

No User Adjustment Required
Cable Management
Uses Standard 9V Battery

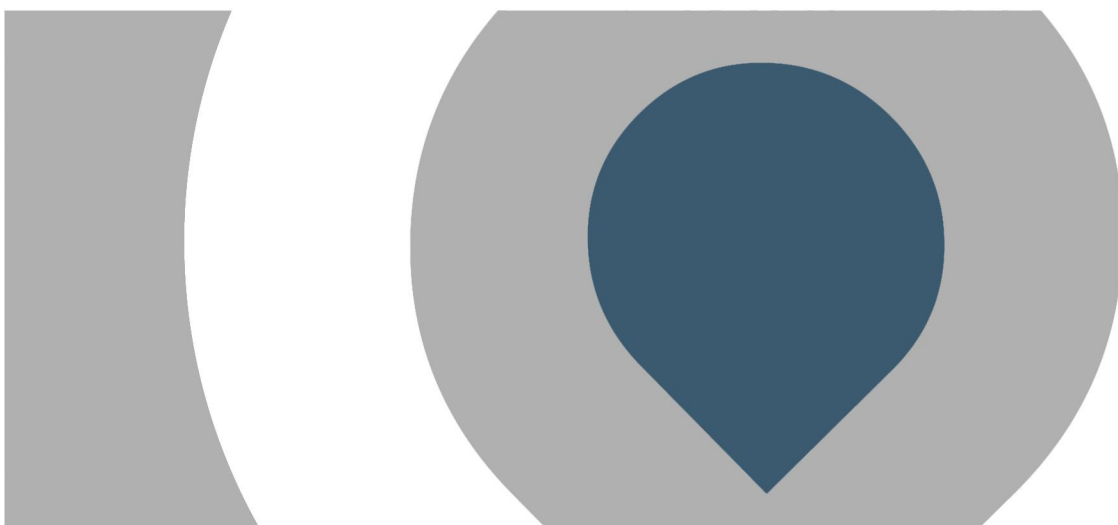


The SludgeWatch 715 provides a simple, low cost method of spot checking the sludge blanket level in a wide variety of settlement tanks. The cable reel design removes the need for any additional carrying bag.

The sludge blanket is detected by winding the sensor down into the tank, the audible tone will change and the LED illuminates once the sensor has reached the blanket. The markings on the sensor cable are then used to determine the depth of the blanket. Additional markings can be added to the cable to pre-define maximum and minimum sludge blanket positions.

Reliable detection of the sludge interface is necessary to allow operators to de-sludge tanks at the right time. Emptying the tank too often is inefficient in terms of manpower and can have knock on effects on the operation of other parts of the sludge treatment system. Equally allowing the tank to have too much sludge can cause carry over to the next process stage or into the local watercourse. Neither scenario is desirable, and the SludgeWatch 715 will provide a quick and easy check on the interface position without relying on operator judgement.

The SludgeWatch 715 uses a range of infrared sensors to make the sludge interface detection. Infrared attenuation has been selected as it is ideally suited to detecting the sludge present in the interface zone. This tends to be considerably 'thinner' than the sludge that is present at the bottom of a settlement tank.



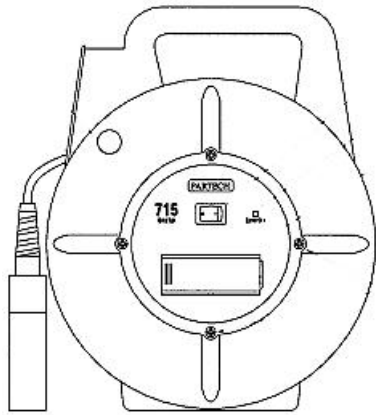
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Physical

Dimensions
Weight
Protection Class
Enclosure Material
Cable Entries
Cable Size
Cable Length

Monitor

280 x 230 x 130 mm (H x W x D)
1.2 kg
IP54
Dark Blue Nylon
via Integral Grommet
5 mm OD
10 metres standard, 15 metres maximum

Sensor

0.5kg
IP68

Environmental Data

Operating Temperature
Storage Temperature
Location

-20 to 60°C
-20 to 60°C
Outdoor

Electrical

Power Supply
Battery Life

9VDC PP3 Alkaline Battery
3-6 months typical use

Measurement Characteristics

Accuracy
Resolution
Measurement Principle
Wavelength
Response Time

+/- 1 cm of interface
Standard cable marking every 1.0 metres
Light Attenuation
960 nm
0.5 seconds

Sensor Selection

Settlement Tank

IR100 Sensor – Special Applications Only
IR40 Sensor – WTW Clarifier, STW Final Settlement
IR15 Sensor – WTW Thickener, STW Primary Settlement
IR8 Sensor – STW Thickener

User Interface

Display
Audible Output

Setup
Units of Measurement

Front Panel LED – 'ON' in Sludge
Short Tone in Water
Long Tone in Sludge
None required
metres

Mounting

Type

Portable

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

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