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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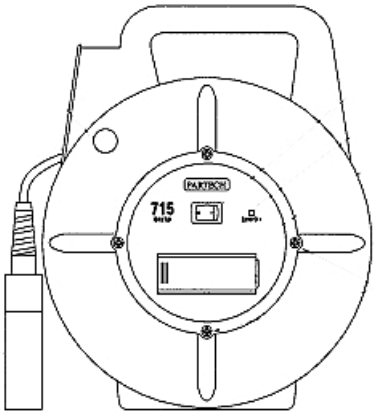

	Monitor	Sensor
Physical		
Dimensions	280 x 230 x 130 mm (H x W x D)	
Weight	1.2 kg	0.5kg
Protection Class	IP54	IP68
Enclosure Material	Dark Blue Nylon	
Cable Entries	via Integral Grommet	
Cable Size	5 mm OD	
Cable Length	10 metres standard ,15 metres maximum	
Environmental Data		
Operating Temperature	-20 to 60°C	0-50°C
Storage Temperature	-20 to 60°C	0-40°C
Location	Outdoor	
Electrical		
Power Supply	9VDC PP3 Alkaline Battery	
Battery Life	3-6 months typical use	
Measurement Characteristics		
Accuracy	+/- 1 cm of interface	
Resolution	Standard cable marking every 1.0 metres	
Measurement Principle	Light Attenuation	
Wavelength	960 nm	
Response Time	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	Front Panel LED – 'ON' in Sludge	
Audible Output	Short Tone in Water Long Tone in Sludge	
Setup	None required	
Units of Measurement	metres	
Mounting		
Type	Portable	

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