



715 Portable

Portable Sludge Blanket Detector

PRODUCT DATASHEET

APPLICATIONS

Sewage Treatment – Final and Primary Tanks

Water Treatment – Clarifiers and Thickeners

BENEFITS

Reliable, Repeatable Blanket Level Measurement

Improved Tank Desludging

FEATURES

No User Adjustment Required

Uses Standard 9V Battery

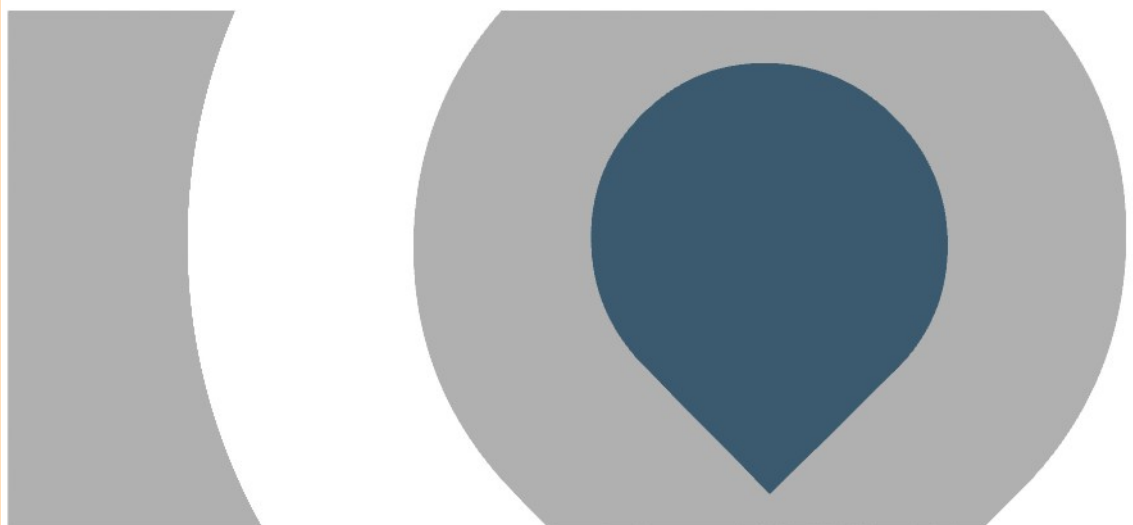


The 715 Portable provides a simple, low cost method of spot checking the sludge blanket level in a wide variety of settlement tanks. The cable reel design removes the need for any additional carrying bag.

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 715 will provide a quick and easy check on the interface position without relying on operator judgement

The 715 Portable 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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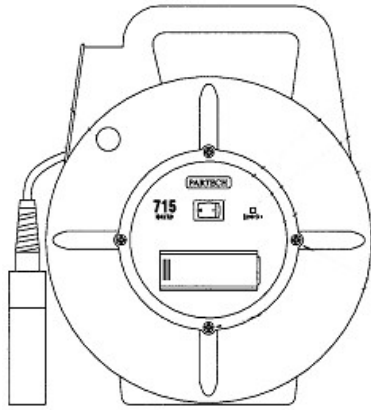




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Specification

Physical

Weight	1.2 kg
Dimensions (h x w x d)	280 x 230 x 130 mm
Enclosure Rating	Electronics IP54, Sensor 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	Electronics -20 to 60°C, Sensor 0-40°C
Storage Temperature	Electronics -20 to 60°C, Sensor 0-40°C
Location	Outdoor

Power Supply

Voltage	9VDC PP3 Alkaline Battery
Battery Life	3-6 months typical use

Measurement Characteristics

Response Time	0.5 seconds
Accuracy	+/- 1 cm of interface
Resolution	Standard cable marking every 1.0 metres
Measurement Principle	Light Attenuation
Wavelength	960 nm

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

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