

SB-CHEK

The SB-Chek developed by MD Instruments Ltd, combines solids and sludge interface Level measurements.

The Automatic Sludge Profiler SB-Chek is intended for continuous operation to check the sludge blanket level within a settlement tank and produce the appropriate control signals to continuously regulate the Auto-desludging operation.

Applications

Typical applications of the Automatic Sludge Profiler SB-Chek can be found in Primary, Secondary Settlement and Consolidation tanks.

Measurement Principle

The sludge blanket level measurement is carried out by initially determining the genuine presence of high solids and then establishing the location of the sensor head, via the position sensor, within the tank. Both the SS (mg/l or %) and the Blanket Level (m or %) are displayed. A stepper motor, linked to the drive shaft through a belt, is used to rotate the cable drum, allowing the sensor head to be moved up or down within the settlement tank. (Ultrasonic sensor heads can be supplied on request).

Specifications

Parameter	Infra-Red	Ultrasonic
Range	* 0 - 7.00 %	0 - 15.0 % *
Sensitivity	0.01 %	0.1 %
Pathlength	10 - 100 mm	150 - 250 mm
Cable Length	Standard 10 metre (33ft)	
Power	110/240AC	50/60Hz
Current Output	Two programmable 0/4 - 20 mA <500 ohm	
Relay Output	Up to 3 miniature relays	
Digital Interface	RS232C.	
Power Consumption	< 30VA	
Housing	Polycarbonate, IP65	
Size	280 x 180 x 130 mm transparent/grey covers	
Weight	5 Kg	

* different ranges can be provided (enquire)



Features

- * Dedicated uP based Blanket Level & SS tank profiler
- * Operational compatibility with MD-products
- * Menu driven instructions via 2x16 Dot Matrix Display
- * High Repeatability and Reliability
- * Simple to use and calibrate via front panel keypad
- * Direct Solids (mg/l, %) and Level (m, %) readout
- * Automatic Tank Profiling at regular intervals
- * Automatic Zero-Calibration at regular intervals
- * Permanent storage of calibration settings
- * High and Low alarm signals (programmable threshold limits)
- * Up to three miniature relay outputs
- * Up to two current outputs (programmable)
- * RS232C Interface output
- * Radio Telemetry Link applications (optional)
- * Accepts up to two DO probes

In the interests of improving and updating its equipment, MD Instruments Ltd reserves the right to alter the specifications to equipment at any time.

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