

MD Instruments Ltd

MCS-16S

For continuous Desludging Control

The MCS-16S, developed by MD Instruments Ltd, combining suspended solids measurement and sludge interface detection, is a low cost microprocessor based control unit.

The MCS-16S unit is intended for continuous operation to check the sludge blanket interface and produce the appropriate control signals for continuous desludging.

Applications

Typical applications of the MCS-16S can be found in Primary and Secondary Settlement tanks.

Measurement Principle

Pulsed Infra-Red light is absorbed by the suspended solids present in the sludge sample and received by a sensitive silicon photodiode. The detected signal is conditioned, to eliminate the presence of ambient light, and fed to the microprocessor for further analysis and display to provide a direct solids read-out in mg/l. (Other sensor heads can be supplied on request).

Specifications

Parameter	Optical	Ultrasonic
Range: (SH2 Head)	0 - 9,999 mg/l	0 - 5.0 %
Sensitivity:	10 mg/l	0.1 %
Pathlength:	10 mm	350 mm
Cable Length:	Standard 6 metre (18ft)	
Power:	110/240AC 50/60Hz	
Current Output:	Four outputs 0/5 - 20 mA <500 ohm	
Relay Output:	Up to 16 miniature relays (optional)	
Digital Interface:	RS232C (Optional)	
Power Consumption:	Min 5VA Max. 30VA	
Housing:	ABS, IP65	
Size:	(Instrument Case) 380 x 280 x 180 mm	
Weight:	(Instrument Case) 1.5Kg	

* Enquire for other ranges



Features

- * Microprocessor based dedicated Blanket Level Detector
- * Operational compatibility with MD-products
- * Menu driven instructions via 2x16 Dot Matrix Display
- * High Repeatability and Reliability
- * Simple to use and calibrate - Low Cost of Ownership
- * Direct suspended solids (mg/l) readout
- * Permanent storage of calibration settings
- * High and Low alarm signals (programmable threshold limits)
- * Radio Telemetry Link applications (optional)
- * State-of-the-Art SMD electronics
- * Can accept up to 16 various types of sensors
- * Up to eight current outputs (optional)
- * RS232C Digital Interface output
- * Up to 16 miniature relay outputs
- * Can accept up to 16 Sensor heads

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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