

**MD** Instruments Ltd

# MCS-32S

## for Continuous SS & Blanket Level Monitoring

The MCS-32S, developed by MD Instruments Ltd, combining suspended solids measurement and sludge interface detection, is a low cost microprocessor based control unit.

The MCS-32S 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-32S 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 or % solids.

(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 8 metres (25ft)	
Power	110/240AC	50/60Hz
Current Output	Four outputs	0/5 - 20 mA <500 ohm
Relay Output	Up to 16 miniature relays	
Digital Interface	RS232C	
Power Consumption	Min 5VA	Max. 30VA
Housing	Polycarbonate, IP65	
Size (Instrument Case)	380 x 280 x 180 mm	
Weight (Instrument Case)	1.5Kg	

\* Different ranges can be provided (enquire)



## 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 Solids (mg/l or %) & Level (m) readouts
- \* 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 various types of sensors
- \* Up to four current outputs
- \* RS232C Digital Interface output
- \* Up to 16 miniature relay outputs

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

**MD Instruments Ltd.**

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