

**MD** Instruments Ltd

# MD-2

**For Sludge Blanket Detection Applications**



The MD-2, developed by MD Instruments Ltd, combining suspended solids and level measurement in one instrument, is a low cost and true hand held microprocessor based battery operated sludge blanket level detector.

The MD-2 meter is intended for use during routine daily inspection or trouble shooting in the wastewater plant. It is an ideal compliment to the continuous operating blanket level detection control systems.

## Applications

Typical applications of the MD-2 can be found in Primary and Secondary Settlement tanks, Activated Sludge, Return Activated Sludge plants and Trade Effluents.

## 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 types of sensor heads can be supplied on request).

## Features

- \* True Hand-Held dedicated suspended solids meter
- \* Operational compatibility with MD-series meters
- \* 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) and level (m) readouts
- \* Permanent storage of calibration factors
- \* Data logging facilities
- \* State-of-the-Art SMD electronics
- \* Ambient light compensation
- \* Can be used for up to 5 Treatment Works
- \* RS232C Interface output (optional)
- \* Mains Power supply adaptor (optional)

## Specifications

Parameter	Solids	Level
Range: (SH2 Head)	0 - 6,000 mg/l	0 - 5.0 m
Sensitivity:	10 mg/l	0.01 m
Cable Length:	Standard 5 metre (16ft)	
Power:	Two Alkaline PP3 9V batteries (40 hours battery life under continuous operation) (Mains Power requirement is optional)	
Digital Interface:	RS232C (Includes MD_SOFT package for IBM-PC) (Optional)	
Size:	(Instrument Case) 180 x 95 x 40 mm	
Weight:	(Instrument Case) 350g	
	(Sensor Head) 500g	

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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