

MD Instruments Ltd

MD-1

For Activated Sludge Plant Applications



The MD-1, developed by MD Instruments Ltd, combining suspended solids and Temperature measurement in one instrument, is a low cost and true hand held microprocessor based battery operated suspended solids meter.

The MD-1 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 suspended solids meters installed in activated sludge plants.

Applications

Typical applications of the MD-1 can be found in 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 temperature (C) 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	Temperature
Range :	(SH2 Head) 0 - 9,999 mg/l	0 - 50 C
Sensitivity:	10 mg/l	0.2 C
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.

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