

MD-10

Expansion Depth and Solids Profiler In Sand Filtration Plants



The MD-10, developed by MD Instruments Ltd, combining suspended solids and Temperature measurement in one instrument, is a low cost and true hand held portable microprocessor based battery operated suspended solids meter.

The MD-10 meter is intended for use during routine daily inspection or trouble shooting in the sand filtration plants.

Applications

Typical applications of the MD-10 can be found in various plants where sand filtration system is widely used and particularly water treatment plants.

Measurement Principle

The Infra-Red light is absorbed by the suspended solids present in the sample during the wash cycle, and received by a sensitive array of silicon photodiodes. 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) and expansion depth in mm (or %).

Specifications

Parameter	Solids	Depth
Range : (S32 Head)	0 - 9,999 mg/l	0 - 200 mm *
Sensitivity:	10 mg/l	15 mm *
Cable Length:	Standard 6 metre (18ft)	
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) 1.5 kg	* different depths can be provided upon enquiry

Features

- * Dedicated Sand-bed expansion Depth & SS profiler.
- * Operational compatibility with MD-products
- * Menu driven instructions via 2x16 Dot Matrix Display.
- * High Repeatability and Reliability.
- * Simple to use, install and calibrate via front panel keypad
- * Direct Solids (mg/l, %) and Level (mm, %) readout
- * Permanent storage of calibration settings
- * Programmable threshold limits
- * RS232C Interface output

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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