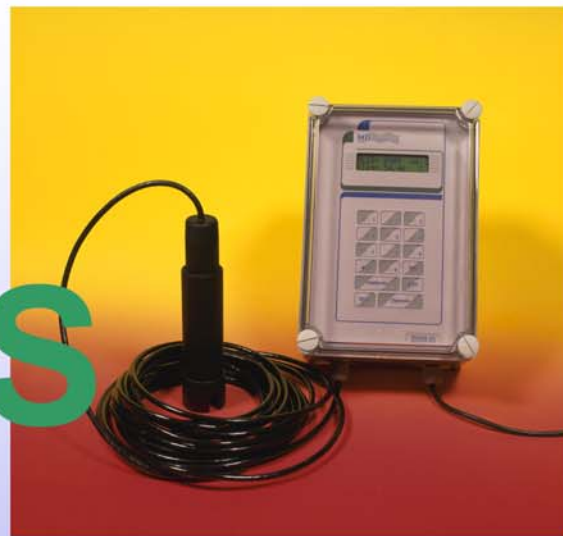


**MD Instruments Ltd**

# WQM-2S

**Dedicated Mixed Liquor Solids**

**Measurement in Activated Sludge Plants**



The WQM-2S developed by MD Instruments Ltd, combines suspended solids measurement and temperature measurement, a LOW COST microprocessor based monitoring unit.

The WQM-2S unit is intended for continuous operation to monitor the mixed liquor suspended solids (MLSS) and produce the appropriate control signals.

#### Applications

Typical applications of the WQM-2S can be found in activated sludge plants.

#### 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.

(Ultrasonic sensor heads can be supplied on request).

## Specifications

Parameter	Optical	Temp
Range	(SH2 Head) 0 - 9,999 mg/l	0 - 50 C*
Sensitivity	10 mg/l	0.2 C
Pathlength	10 mm	
Cable Length	Standard 6 metre (18ft)	
Power	110/240AC 50/60Hz	
Current Output	programmable 0/4 - 20 mA	<500 ohm
Relay Output	Up to 2 miniature relays	
Digital Interface	RS232C.	
Power Consumption	< 5VA	
Housing	Polycarbonate, IP65	
Size (Instrument Case)	280 x 180 x 130 mm with transparent cover.	
Weight (Instrument Case)	1.0Kg	

\* different ranges can be provided (enquire)

- \* Microprocessor based dedicated MLSS monitor for one tank
- \* Operational compatibility with MD-products
- \* Menu driven instructions via 2x16 Dot Matrix Display
- \* High Repeatability and Reliability
- \* Simple to use and calibrate via front panel keypad
- \* Direct MLSS (mg/l) and temperature (o C) readouts
- \* Permanent storage of calibration settings
- \* High & Low alarm signals (programmable threshold limits)
- \* Radio Telemetry Link applications (optional)
- \* State-of-the-Art SMD electronics
- \* Signal to energise the Auto-Cleaning Unit (WQM-CL)
- \* Up to two current outputs (programmable)
- \* RS232C Interface output
- \* Up to two 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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