

WQM-16S

for Continuous DO Monitoring

The WQM-16S developed by MD Instruments Ltd, combining suspended solids measurement and temperature measurement, is a low cost microprocessor based monitoring unit.

The WQM-16S unit is intended to monitor the mixed liquor suspended solids in eight tanks and produce the appropriate control signals.

Applications

Typical applications of the WQM-16S 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		Temp
Range: (SH2 Head)	0 - 20.00mg/l (0-200%)	0 - 40 C *
Sensitivity:	0.01 mg/l	0.2 C
Cable Length:	Standard 6 metre (18ft)	
Power:	110/240AC 50/60Hz	
Current Output:	Four outputs 0/4 - 20 mA	<500 ohm
Relay Output:	Up to 16 miniature relays (optional)	
Digital Interface:	RS232C (Optional)	
Power Consumption:	Min 5VA Max. 30VA	
Housing:	ABS, IP65	
Size: (Instrument Case)	380 x 280 x 180 mm	
Weight: (Instrument Case)	1.5Kg	

* Special sensor head can be manufactured as required.



Features

- * Microprocessor based dedicated Dissolved Oxygen Monitoring Unit
- * 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 Dissolved Oxygen (mg/l or %) 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 up to five Sensor Heads
- * Up to eight current outputs
- * RS232C 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.

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