

MD Instruments Ltd

WQM-TURB

for Continuous FE Solids Monitoring

The WQM-Turb developed by MD Instruments Ltd, combines suspended solids/Turbidity measurement and temperature measurement, as a LOW COST microprocessor based monitoring unit.

The WQM-Turb unit is intended for continuous operation to monitor the final effluent suspended solids (SS) and produce the appropriate control signals.

Applications

Typical applications of the WQM-Turb can be found in Final effluent discharges in both water and wastewater works.

Measurement Principle

Final Effluent Turbidity/suspended solids concentration measurement principle is based on the light absorption and 90o scatter methods. The Infra Red light source is pulsed at an optimum frequency. The sensitive silicon photodiode detects the amount of light transmitted and 90o scattered through the effluent sample. The detected signals are 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

Specifications

Parameter	Optical	Temperature
Range (SH1e Head)	0 - 100 mg/l	0 - 50 o C *
Sensitivity	1 mg/l	0.5 o C
Method	Absorption and Scatter	
Cable Length	Standard 8 metre (26ft)	
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	

* Enquire for other ranges

Features

- * Microprocessor based dedicated SS 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 SS/Turbidity (mg/l) and temperature (o C) 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
- * 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.

Unit 8, Newburn Centre, Dean Street, Swindon, SN1 5EW

Tel: +44 (0) 1793 433595 Fax: +44 (0) 1793 644244

sales@mdinstruments.co.uk