

MD Instruments Ltd

WQM-2DO

for Continuous DO Monitoring



The WQM-2DO developed by MD Instruments Ltd, combines Dissolved Oxygen (DO) and temperature measurement, in a LOW COST, microprocessor based monitoring unit.

The WQM-2DO unit is intended for continuous operation to monitor the DO in activated sludge plants and produce the appropriate control signals.

Applications

Typical applications of the WQM-2DO can be found in activated sludge plants to control the aeration process.

Measurement Principle

The DO measurement is based on the Clarke cell, consisting of a Silver anode and a gold disc cathode. The cell chamber is filled with KCl electrolyte which is active throughout the cell life and supported with a permeable (to gases) polythene membrane. The DO probe is designed of rugged construction to incorporate the replaceable membrane. The cell is temperature compensated and displayed in mg/l.

Specifications

Parameter	Cell	Temp.
Range	0 - 20.00 mg/l* (0 - 200%)	0 - 40o C
Sensitivity	0.01 mg/l	0.1o C
Cable Length	Standard 8 metre (26 ft)**	
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)	1.5kg	

* also (0 - 20 mg/l)

** Longer cables supplied on request.

Features

- * Microprocessor based DO & Temp. monitor for one tank
- * Operational compatibility with MD-products
- * Menu instructions via 2x16 Backlit Dot Matrix Display
- * High Repeatability and Reliability
- * Simple to use and calibrate via front panel 4 x 4 keypad
- * Direct DO (mg/l) and temperature (oC) readouts
- * Permanent storage of calibration settings
- * High & Low alarm signals (programmable threshold limits)
- * Radio Telemetry Link applications (optional)
- Signal to energise the Auto-Cleaning Unit (WQM-CL)
- * Auto-Cleaning & Calibration of the DO probes (option)
- * 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