

BONT[®]

Bont Technologies GmbH

Industrial Online Dissolved Oxygen Meter DO 100



Introduction

DO 100 has special price advantages due to its simplified functions on the premise of guaranteed performance. The clear display, simple operation and high measuring performance provide it with high cost performance. It can be widely used for continuous monitoring of the dissolved oxygen value of the solution in thermal power plants, chemical fertilizer, metallurgy, environmental protection, pharmacy, biochemical engineering, foodstuff, running water and many other industries. It can be equipped with Polarographic Electrode and can do ppm level measurement.

Feature

- DO 100 is a precision instrument used for testing and control of dissolved oxygen. The instrument has all the parameters for microcomputer storing, calculating and compensating of the related measured dissolved oxygen values; DO 100 can set the relevant data, such as elevation and salinity. It is also featured by complete functions, stable performance and simple operation. It is an ideal instrument in the field of the dissolved oxygen test and control.
- DO 100 adopts the back-light LCD display, with error indication. The instrument also owns the following features: automatic temperature compensation; isolated 4-20mA current output; the dual-relay control; high and low points alarming instructions; power-down memory; no need back-up battery; data saved for more than a decade.

Technical Indexes

1. Measuring Range	0.00~19.99mg/L Saturation : 0.0~199.9%
2. Resolution	0.01mg/L 0.01%
3. Accuracy	±1.5% F.S
4. Control Range	0.00~19.99mg/L 0.0~199.9%
5. Temperature Compensation	0~60°C
6. Output Signal	4-20mA isolated protection output, double current output available, RS485 (optional)
7. Output Control Mode	On/Off relay output contacts
8. Relay Load	AC 230V 5A
Maximum	AC 115 10A
9. Current output load	Allowable maximum load of 500Ω
10. On-ground voltage insulation Degree	Minimum Load of DC 500V
11. Operating Voltage	AC 220V 10%, 50/60Hz
12. Dimensions	96 x 96 x 115mm
13. Dimension of the hole	92 x 92mm
14. Weight	0.8 kg
15. Instrument working conditions	1. Ambient temperature : 5 -35°C 2. Air relative humidity : ≤ 80% 3. Except for the earth magnetic field, there is no interference of other strong magnetic field around.

Online Dissolved Oxygen Electrode

DO 100 type oxygen electrode improved from the previously dissolved oxygen electrode , change diaphragm into a grit mesh metal membrane, with high stability and stress resistant, can be used in a more harsh environment, maintenance volume is smaller, suitable for urban sewage treatment, industrial waste water treatment, aquaculture and environmental monitoring and other fields of continuous measurement of dissolved oxygen.

Technical Indexes

1. Ultra resistant to pressure (0.6Mpa) wallop, imported (grit mesh metal membrane)	
2. Up thread	M32 * 2.0
3. Measuring Range	0-20mg/L
4. Measuring Principle	Current type sensor (polarographic electrode)
5. Breathable membrane thickness	100µm
6. Electrode shell material	PVC or 316L stainless steel
7. Temperature compensation resistance	Pt100, Pt1000, 22K, 2.252K, etc.
8. Sensor life	> 2 years
9. Cable Length	5m
10. Detection Limit	0.01 mg/L (20°C)
11. Measurement Limit	40mg/L
12. Response Time	2 min (90%, 20°C)
13. Polarization Time	60 min
14. Minimum Flow Rate	2.5cm/s
15. Drift	<2% / month
16. Measurement Error	<± 0.01mg/L
17. Output Current	50-80nA/0.1mg/L Note : Maximum current 3.5µA
18. Polarization Voltage	0.7V
19. Zero oxygen	<0.01 mg/L
20. Calibration Interval	>60 days
21. Measured Water Temperature	0-60°C

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