



## DO5000 Dissolved Oxygen Controller / Transmitter

Designed for aquaculture, medicine manufacturing, industrial dissolved oxygen analysis and control applications. With Clark cell mode and Galvanic cell mode selectable, and automatically compensates salinity / barometric pressure after manual input, it is advantageous for all demanding applications.

### Main Features:

- NEMA4X, IP65 rated: waterproof and anti-gas. High protection against electromagnetic interference.
- Large LCD, with high luminance LED orange backlight.
- Automatically compensates salinity / barometric after manual input for increased accuracy.
- Control modes: on/off limited control(LIT).
- Separately adjustable high and low set-point hysteresis (dead bands) prevent chattering of relays around the set points.
- Two level password protection prevents unauthorized tampering with settings.
- Scalable isolated 0/4 -20 mA Outputs.

### Typical Applications:



Aquaculture



Industrial process



Boiler water



Circulating water

### Specifications:

Range	0.0 to 40.00 ppm ; 0.0 to 400.0 % -5.0 ~ +100 °C	Signal Output Load	600Ω
Resolution	0.01 ppm ; 0.1 % ; 0.1 °C	Relay Output	2 SPST relays, 250V/1A (or 110V/2A)
Accuracy	±2% F.S.; ±0.5 °C	Control hysteresis band	0.01 - 2.00 ppm 0.1 - 20.0%
Calibration Point	1 point (100% saturation) or 2 points (0% and 100% saturation)	LCD	Big-size screen of crystal display, orange back light
Temperature Compensation	Automatic ( ± 10 °C offset adjustment ) / Manual	Power	110V / 220V AC
Electrode	Clark / Galvanic	EMC Specification	EN 50081-1 / EN 50082-1
Temperature Electrode	NTC22K	Working temperature	- 10 to 50 °C (14 to 122 °F)
Salinity Compensation	0.0 - 45.2 ppt	Humidity	10 to 95% (no frozen dew)
Atmospheric Pressure Compensation	500 - 768 mmHg	Protection grade	NEMA 4X, IP 65
Control Function	Limited Point (On / Off)	Dimensions	100 * 108 * 150mm
Signal Output / Load	0 / 4 - 20 mA isolated current output, set up by user	Installation	Panel Mounting
		Panel Cut Size	93.5 * 93.5mm
		Weight	900g