

DO500 Loop-Powered Dissolved Oxygen Transmitter



Specifications

DO Range	mg/L of oxygen: 0.00-20.00 mg/L ppm of oxygen: 0.00-19.99 ppm % saturation oxygen: 0.00 - 200.0 %
Resolution	0.01 mg/L, 0.01 ppm, 0.1%
Accuracy	±1.5% of full scale
Temperature Range	0 °C to 100 °C (32 °F to 212 °F)
Temperature Resolution	0.1 °C (0.1 °F)
Relative Temperature Accuracy	±0.5 °C (±0.9 °F)
Temp Sensor	Pt100(3 wire / 2 wire)
Temperature Compensation	Auto/Manual
Temperature Coefficient	0 to 10°C (selectable)
Salinity Compensation	0.0 -50.0 ppt (manual & automatic)
Pressure Compensation	0.74 -3.00 bar; 55-225cm Hg; 10.7- 43.5 psi (manual & automatic)
Output	4.0-20.0mA
Display	Dual Display Custom LCD
Power Requirements	12 to 24V DC, maximum 600 Watt load
Dimension	96 x 96 x 66 mm (3.78 x 3.78 x 2.6 inch)
Weight	210 g
Certifications	CE

Isolated Output prevents output interference caused by electrical noise or leakage from the input source.

Out-of-range Output Current Indicator indicates an out-of-range measurement by emitting a 3.8mA output current.

Hold Output Current Indicator to indicate 'HOLD' mode during calibration or set up mode.

Scaleable 4-20 mA Current Output

Primary and secondary display for simultaneous display of Dissolved Oxygen and Temperature values.

Easy Push Button Operation

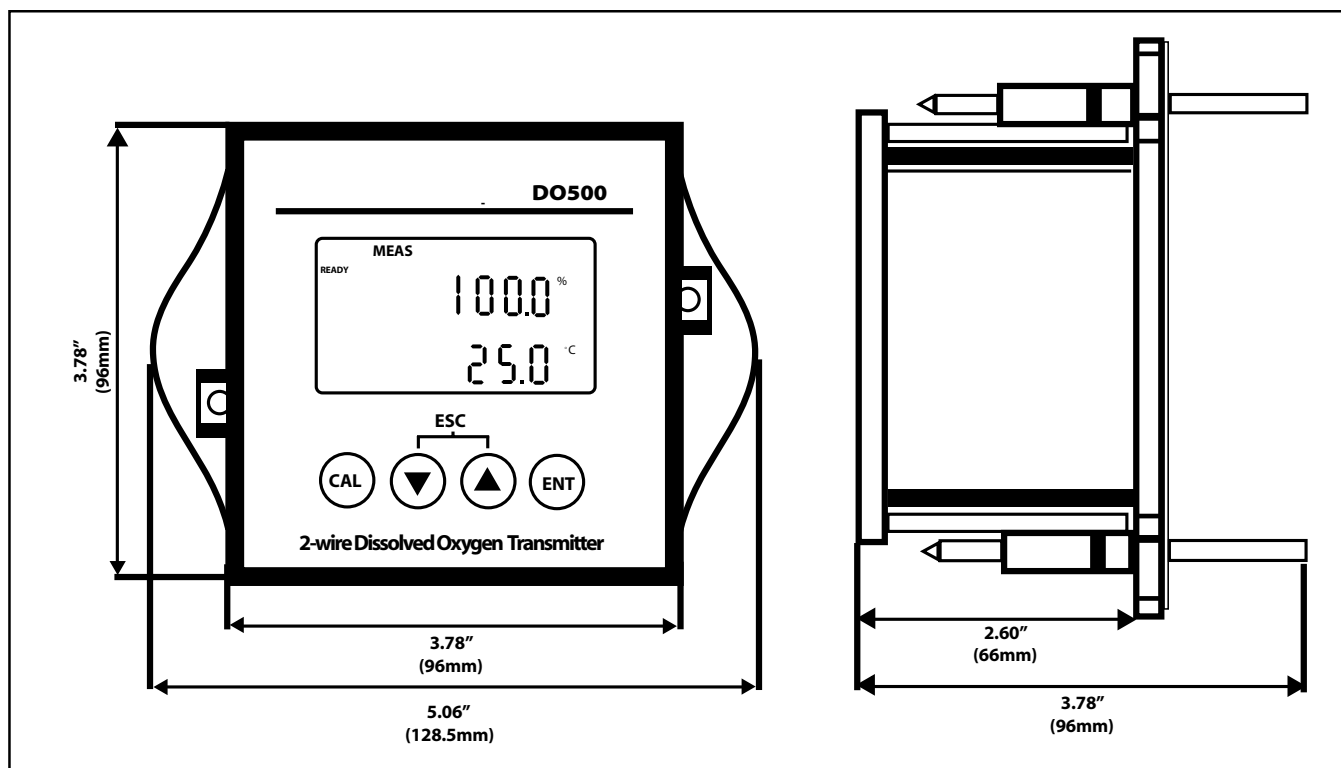
Automatic (with Pt 100) or manual Temperature Compensation

Panel or Wall Mount, Nema 4x, IP65 Weatherproof Housing

Offset Adjustment allows correction without sensor removal

This isolated output 4-20mA industrial transmitter is a sturdy microprocessor-based instrument that measures dissolved oxygen and temperature and transmits the dissolved oxygen output via a two-wire power supply loop. This transmitter has many user-friendly features—all of which are easily accessible via the water resistant membrane keypad. Ideal for connecting to a PLC for advanced control systems, the transmitter can also be connected to a recorder for a low-cost documentation system. The instrument housing is designed for panel or wall mounting.

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Ordering Information

Part number	Description
DO500	1/4 DIN, 2-wire, loop-powered, 4-20mA, dissolved oxygen transmitter