DATA SHEET

DISSOLVED OXYGEN SENSOR

SKU: 525-0600-00

Accurately monitor dissolved oxygen with zero maintenance and full digital integration.

This optical DO sensor delivers stable, accurate readings without membranes or electrolyte solutions. Designed for aquaculture, wastewater, and environmental monitoring, it features Modbus RTU output, stainless steel housing, and a fully submersible IP68 design. Factory-calibrated and maintenance-free for long-term, worry-free operation.

SPECIFICATIONS	DETAILS
Measurement Range	0.00 to 20.00 mg/L
Accuracy	±3% of reading or ±0.3 mg/L (whichever is larger)
Resolution	0.01mg/L
Power Supply	10-25VDC
Operating temperature	0–45 °C operating (±0.5 °C accuracy); –15 °C to +60 °C storage
Communication	Modbus RTU
Ingress Protection	IP68/NEMA6P
Material	Stainless Steel 316L
Maximum Pressure	≤ 0.1 MPa
Cable	10 m standard; optional up to 100 m

Performance

- Measures dissolved oxygen from 0.00–20.00 mg/L with ±3% or ±0.3 mg/L accuracy
- Also reports oxygen saturation (0–200%) and temperature (0–45°C)
- Built-in factory calibration, supports air and zero-point recalibration

Efficiency

- No membranes or reagents – optical fluorescence method
- Requires only annual cap replacement and periodic rinsing
- Compact, fully submersible with 10m plug-and-play cable

Connectivity

- Modbus RTU communication for seamless system integration
- Selectable baud rates from 4800 to 57600 bps
- Compatible with Pearl Controller + Link4 Cloud Dashboard
- 5-wire shielded cable for simple wiring and grounding