

HQ40d Meter with IntelliCAL LBOD101 Luminescent Dissolved Oxygen Probe (LDO) for BOD Measurement

IntelliCAL LBOD101 DO Probe for BOD: Specifications

Description of Category	Specification
Hardware platform	HQ30d & HQ40d Meter
Languages in the user documentation	English Only (EU and Asia languages to follow)
Weight	0.5 lbs (225 g)
Dimensions (Length x Diameter)	7.5" x 1.6" (191 x 41 mm)
Environmental Rating	IP65
Measuring interval	Continuous or Push to Read
Measurement range	0.05 - 10 mg/L
Dissolved Oxygen (DO)	
Detection Limit	0.05 mg/L
Resolution	0.00
Display Units	mg/L, and %Saturation
Response Time	T95 in 30 seconds
Accuracy	+/- 0.05 mg/L
Precision & Reproducibility	+/- 0.03 mg/L
BOD	
Precision & Reproducibility	10% RSD
vs GGA 198 mg/L	198 ± 30 mg/L
Temperature	
Accuracy (@ 20°C, ± 5 °C range)	± 0.2 °C
Precision & Reproducibility	0.2 °C
Response Time	T95 in 30 seconds
Pressure	
Accuracy	± 3 mBar
Precision & Reproducibility	5 mBar
Operating Environment	
Applications	Laboratory Only
Bottle Type	US-based 300 mL BOD Bottles; 0.625 in. (15.875 mm) diameter
Storage Temperature	10-30 °C
Operating/Ambient Temperature (°C)	10-30 °C
Sample Temperature	10-30 °C
Pressure range	0.7 - 1.3 bar
Humidity	0 to 95% Non Condensing for storage
UV/sunlight exposure	No direct UV sunlight exposure
Altitude	0 to 4500 meter
Designed for cleaning, sanitation, service, and maintenance	Clean with water
Enclosure Integrity (IP Rating)	Waterproof for cleaning and normal use (IP65)
Warranty life	1 year
Supply Voltage / Frequency	100-240V 50/60Hz
Power consumption	1 watt

Compliance/Regulatory

CE (list specific areas)	CE: ENG61010 EN61326- EMC requirements for lab equipment, specifically: EN 61000-4-2 ESD (8kV air, 4kV contact) EN 55011 Radiated and Conducted RF emissions (Class B limits) EN 61000 -4-3 Radiated Immunity (3V/m enclosure)
CE (list specific areas)	EN 61000-4-4 EFT (1 kV on ac port only) EN 61000-4-5 Surge (0.5kV/1kV on ac port only) EN 61000-4-6 Conducted Immunity (1V on ac port only) EN 61000-4-11 Power Quality (N/A <75W)
USEPA	EPA Approved
WEEE	WEEE Compliance Required