



Long-term Deployment Water Quality Sonde

- **Type de produit**
Installation à poste fixe
- **Paramètres de mesure**
Température, conductivité, pH, oxygène dissous, turbidité, chlorophylle
- **Avantages**
Conçu spécifiquement pour les déploiements à long terme pendant une durée allant jusqu'à trois mois
- **Interface**
SDI-12, RS232

Le dernier membre de la famille de sondes de qualité de l'eau HydroCAT peut aussi mesurer le pH, la turbidité et la chlorophylle. En plombant le capteur de pH en ligne avec les capteurs de conductivité, de température et d'oxygène dissous optique, l'HydroCAT-EP permet des déploiements allant jusqu'à trois mois sans traitement des données nécessaire pour corriger la dérive.

Conductivity	
Range	0 ... 70 mS/cm (0- 70,000 μ S/cm)
Accuracy	\pm 0.003 mS/cm (3 μ S/cm)
Typical Stability	0.003 mS/cm (3 μ S/cm) per month
Resolution	0.0001 mS/cm (0.1 μ S/cm)

Temperature	
Range	-5 ... 45°C

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Accuracy	$\pm 0.002^{\circ}\text{C} \pm 0.01^{\circ}\text{C}$ (over 35°C)
Typical Stability	0.0002 $^{\circ}\text{C}$ per month
Resolution	0.0001 $^{\circ}\text{C}$

Pressure	
Range	0 ... 20 m/ 0 ... 100 m/ 0 ... 350 m
Accuracy	$\pm 0.1\%$ of full scale range
Typical Stability	0.05% of full scale range
Resolution	0.002% of full scale range

Optical Dissolved Oxygen	
Range	200% of surface saturation in all natural waters
Accuracy	± 0.1 mg/L (3 $\mu\text{mol/kg}$) or $\pm 2\%$ whichever is greater
Typical Stability	< 0.03 mg/L (1 $\mu\text{mol/kg}$)/ 100,000 samples (20°C)
Resolution	0.007 mg/L (0.2 $\mu\text{mol/kg}$)

pH	
Range	0 ... 14 pH
Accuracy	± 0.1 pH

Typical Stability	0.1 pH over 90 days
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Resolution	0.01 pH
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Turbidity	
Range	0 ... 3,000 NTU
Accuracy	$\pm 1\%$
Resolution	0.06 ... 0.17 based on range

Chlorophyll	
Range	0 - 400 $\mu\text{g/L}$
Accuracy	$\pm 3\%$
Resolution	0.007 ... 0.037 based on range

Electrical	
Clock Stability	5 sec/month
External Power	(optional) 0.25 Amps at 9 \square 24 VDC
Internal Power	7.8 AMP battery pack (AA Lithium)

Communication	SDI 12/RS232
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Memory	16 MB non-volatile FLASH 215,000 samples
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Service	Annual service and factory calibration
Warranty	5 years (some exclusions see full Warranty Statement)

Données techniques

Sea-Bird Scientific HydroCAT-EP



Housing	350 m plastic housing
Weight	4.05 kg (9.0 lbs) in air
Length	722 mm (28.45 in)
Diameter	139.5 mm (5.49 in)

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