



## Long-term Deployment Water Quality Sonde

- Product type
   Unattended
- Parameters measured Temperature, Pressure, Dissolved Oxygen, Conductivity, pH, Turbidity and Chlorophyll
- **Product highlights** Designed specifically for long-term deployments of up to three months
- Interface
   SDI-12, RS232

The newest member of the HydroCAT family of water quality Sondes can also measure pH, turbidity and chlorophyll. By plumbing the pH sensor inline with conductivity, temperature and optical dissolved oxygen the HydroCAT-EP is capable of deployments up to three months without requiring data processing to correct for drift.

Conductivity	
Range	0 70 mS/cm (0- 70,000 µS/cm)
Accuracy	± 0.003 mS/cm (3 μS/cm)
Typical Stability	0.003 mS/cm (3 µS/cm) per month
Resolution	0.0001 mS/cm (0.1 µS/cm)



Temperature	
Range	-5 45°C
Accuracy	± 0.002°C/± 0.01°C (over 35°C)
Typical Stability	0.0002°C per month
Resolution	0.0001°C
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Pressure	
Range	0 20 m/ 0 100 m/ 0 350 m
Accuracy	± 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	$\pm$ 0.1 mg/L (3 $\mu mol/kg)$ or $~\pm$ 2% whichever is greater
Typical Stability	< 0.03 mg/L (1 µmol/kg)/ 100,000 samples (20°C)
Resolution	0.007 mg/L (0.2 µmol/kg)
ph	
Range	0 14 pH
Accuracy	± 0.1 pH
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Typical Stability	0.1 pH over 90 days
31 3	
Resolution	0.01 pH
Resolution	
Resolution Turbidity	
Resolution	
Resolution Turbidity	0.01 pH
Resolution Turbidity Range	0.01 pH 0 3,000 NTU
Resolution Turbidity Range Accuracy	0.01 pH 0 3,000 NTU ± 1%
Resolution Turbidity Range Accuracy	0.01 pH 0 3,000 NTU ± 1%
Resolution Turbidity Range Accuracy Resolution	0.01 pH 0 3,000 NTU ± 1%
Resolution Turbidity Range Accuracy Resolution Chlorophyll	0.01 pH 0 3,000 NTU ± 1% 0.06 0.17 based on range
Resolution Turbidity Range Accuracy Resolution Chlorophyll Range	0.01 pH 0 3,000 NTU ± 1% 0.06 0.17 based on range 0 400 μg/L
Resolution Turbidity Range Accuracy Resolution Chlorophyll Range Accuracy	0.01 pH 0 3,000 NTU ± 1% 0.06 0.17 based on range 0 400 μg/L ± 3%
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ResolutionTurbidityRangeAccuracyResolutionChlorophyllRangeAccuracyResolution	0.01 pH 0 3,000 NTU ± 1% 0.06 0.17 based on range 0 400 μg/L ± 3% 0.007 0.037 based on range 5 sec/month
ResolutionTurbidityRangeAccuracyResolutionChlorophyllRangeAccuracyResolutionElectricalClock Stability	0.01 pH 0 3,000 NTU ± 1% 0.06 0.17 based on range 0 400 μg/L ± 3% 0.007 0.037 based on range 5 sec/month (optional) 0.25 Amps at 9 24 VDC
ResolutionTurbidityRangeAccuracyResolutionChlorophyllRangeAccuracyResolutionElectricalClock StabilityExternal Power	0.01 pH 0 3,000 NTU ± 1% 0.06 0.17 based on range 0 400 μg/L ± 3% 0.007 0.037 based on range 5 sec/month
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## Technical Data

Sea-Bird Scientific HydroCAT-EP



Warranty	5 years (some exclusions see full Warranty Statement )
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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