



Long-term Deployment Water Quality Sonde

- **Tipo de producto**
Instalación fija
- **Parámetros medidos**
Temperatura, nivel/profundidad, oxígeno disuelto, conductividad, pH, turbidez y clorofila
- **Puntos destacados**
Diseñada específicamente para intervenciones largas de hasta tres meses.
- **Interface**
SDI-12, RS232

El miembro más reciente de la familia de sondas para la calidad del agua HydroCAT también puede medir el pH, la turbidez y la clorofila. Conectando el sensor de pH en línea con los parámetros de conductividad, temperatura y oxígeno disuelto óptico, la HydroCAT-EP puede permanecer operativa durante hasta tres meses sin necesidad de procesar sus datos para corregir la deriva.

| 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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Datos técnicos

Sea-Bird Scientific HydroCAT-EP



| | |
|-------------------|--------------------------------|
| Accuracy | ± 0.002°C/± 0.01°C (over 35°C) |
| Typical Stability | 0.0002°C per month |
| Resolution | 0.0001°C |

| 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 | ± 0.1 mg/L (3 µmol/kg) or ± 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 |
|-------------------|---------------------|

| | |
|------------|---------|
| Resolution | 0.01 pH |
|------------|---------|

| Turbidity | |
|------------|------------------------------|
| Range | 0 ... 3,000 NTU |
| Accuracy | ± 1% |
| Resolution | 0.06 ... 0.17 based on range |

| Chlorophyll | |
|-------------|--------------------------------|
| Range | 0 - 400 µg/L |
| Accuracy | ± 3% |
| Resolution | 0.007 ... 0.037 based on range |

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

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|---------------|--------------|
| 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) |

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| | |
|----------|--------------------------|
| 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) |