



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) |











Technical Data

Sea-Bird Scientific HydroCAT-EP



| 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 |

| 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 |

| Typical Stability | 0.1 pH over 90 days |
|--------------------|----------------------|
| 1 gpicat Stability | on principal de dags |

| B 1 11 | 0.04 | |
|------------|---------|--|
| Resolution | Ha 10.0 | |

| 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) |

| Communication | SDI 12/RS232 |
|---------------|--------------|
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| Memory | 16 MB non-vlatile FLASH 215,000 samples |
|--------|---|
| | |

| Service | Annual service and factory calibration |
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Technical Data

Sea-Bird Scientific HydroCAT-EP



| Warranty | 5 years (some exclusions see full Warranty Statement) |
|----------|--|
| wanting | gears (some exclusions see fall warranty statement) |
| Housing | 350 m plastic housing |
| Weight | 4.05 kg (9.0 lbs) in air |
| | Ng (818 122), a |
| Length | 722 mm (28.45 in) |
| Diamotor | 120 5 mm (5 49 in) |
| Diameter | 139.5 mm (5.49 in) |









