



For longterm water quality monitoring with proven anti-fouling technology

- **Type de produit**
Installation à poste fixe
- **Paramètres mesurés**
Température, profondeur, oxygène dissous, conductivité
- **Avantages**
Parfaitement adapté aux déploiements prolongés dans des environnements distants biologiquement riches
- **Interface**
SDI-12, RS-232, RS-485 (optional)

Les capteurs éprouvés sur le terrain mesurent la conductivité, la température, la pression et l'oxygène dissous par voie optique. En fonction de l'application, l'HydroCAT peut collecter des données de grande qualité pendant une durée allant jusqu'à un an. Des dispositifs contre les bio-salissures approuvés par l'EPA des États-Unis et une pompe intégrée offrent une excellente protection antisalissure organique, tandis qu'une voie d'écoulement interne unique offre des mesures stables pendant tout le déploiement.

Measured Parameters

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 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

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	120% 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)

Electrical

Clock Stability	5 seconds/month
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Acquisition Time	2.3 ... 3.2 seconds/sample (see manual)
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Power Supply	
Internal	7.8 Amp-hour (nominal) battery pack, 257 Kjoules (derated for calculations)
Optional External Power	0.25 Amps at 9 ... 24 VDC
Power Consumption(all with pressure) *	
Quiescent	0.0004 Watts
CTD-DO Sample Acquisition (excluding pump):	Real-time data enabled - 0.17 Watts No real-time data - 0.155 Watts
CTD-DO Sample Waiting (not sampling, pump running, excluding pump):	Real-time data enabled - 0.056 Watts if receive line valid, 0.016 Watts if receive line not valid No real-time data - 0.016 Watts
CTD-DO Between Samples	Real-time data enabled - 0.056 Watts if receive line valid 0.0004 Watts if receive line not valid No real-time data - 0.0004 Watts
Pump	0.12 Watts
Communications	0.065 Watts

* Power consumption values are for standard RS-232 interface; for optional interfaces, see corresponding manual.

General

Housing Material	Plastic
Depth Rating	350 m (1148 ft)
Weight	3.4 kg (7.5 lbs) in air, 1.5 kg (3.3 lbs) in water