

For longterm water quality monitoring with proven anti-fouling technology

- **Tipo de producto**
  Instalación fija
- **Parámetros medidos**
  Temperatura, nivel/profundidad, oxígeno disuelto, conductividad
- **Puntos destacados**
  Idóneo para intervenciones prolongadas en ambientes remotos y biológicamente ricos
- **Interface**
  SDI-12, RS-232, RS-485 (optional)

Sensor de eficacia demostrada en campo que mide la conductividad, la temperatura, la presión y el oxígeno disuelto óptico. HydroCAT puede recoger datos de alta calidad a lo largo de hasta un año en función de la aplicación. Cuenta con una protección excelente contra la bioincrustación gracias al sistema antiincrustante aprobado por la US-EPA con bomba integral y paso de flujo interno exclusivo que proporciona mediciones estables durante la intervención.

Measured Parameters

Conductivity	
Range	0 … 70 mS/cm (0 … 70,000 µS/cm)
Accuracy	± 0.003 mS/cm (3 µS/cm)

We reserve the right to make technical changes and improvements without notice. V-13/03/2024
OTT Hydromet GmbH, Germany

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

Acquisition Time	2.3 ... 3.2 seconds/sample (see manual)

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

We reserve the right to make technical changes and improvements without notice. V-13/03/2024
OTT Hydromet GmbH, Germany

* 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

We reserve the right to make technical changes and improvements without notice. V-13/03/2024
OTT Hydromet GmbH, Germany