



CONTROS
Systems & Solutions GmbH



HydroC™ CO₂ FT

Carbon Dioxide Flow Through Sensor

CONTROS' HydroC™ CO₂ FT sensor is a unique carbon dioxide sensor for in-situ and online measurements of dissolved CO₂. Applications include: air-sea gas exchange, ocean acidification, limnology, climate studies, agriculture/fish farming and fresh water control.

ADVANTAGES

- High accuracy within 1%
- User-friendly
- Fast response time; first signal derived in 7 seconds or less
- Long-term maintenance interval of 12 months
- Long-term measurement stability
- 'Plug & Play' principle; all required cables, connectors and software are included

HOW IT WORKS

Water is pumped through the membrane head of the Flow Through Sensor. Dissolved CO₂ molecules diffuse through a silicone membrane into the patented detector chamber, where their number is determined by means of IR absorption spectrometry. Concentration-dependent IR light intensities are converted into output signals.



MARKET LEADER IN DISSOLVED GAS MEASUREMENTS. MADE IN GERMANY.

CO₂ FT

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FAST FACTS

FERRYBOX

FerryBox is an autonomous, low-maintenance metrology system which has been developed especially for permanent deployment on ships, metrology platforms and river measurement points. Due to its special architecture, the system is able to link a multitude of sensors and automatic analysis devices and even perform measurements in difficult media (such as sea water or bubbling water etc.). The entire sensor system is an integral part of the anti-fouling concept whereby the maintenance requirement is held to a minimum.



DETECTOR	High-precision optical analyzing NDIR system
MEASURING RANGE	Standard calibration is 200 – 1000 ppm (other ranges available)
WEIGHT	4.7 kg
FLOW RATE	2 to 15 l/min (Recommended 5 l/min)
DIMENSIONS	325 x 240 x 126 mm (L x W x H)
TEMPERATURE RANGE	+3°C to +30°C
RESPONSE TIME	First signal < 7s (with external pump)
RESOLUTION	< 1 ppm
ACCURACY	±1% reading (as the total sum of all the errors)
CONNECTOR	Hirschmann-plug CA6LD · Others on request
POWER SUPPLY	Depending on water temp. approx. 400 mA
DATA INTERFACE	RS-232C; Data format ASCII NMEA-0183
SOFTWARE	Windows® Software DETECT™ incl. real time data visualization, setting of sensor parameters, download data from internal data logger · Customizable to user-software

OPTIONS

- Analogue Output: 0 – 5 V
- Range/Full-scale can be user-configured
- RS-485
- Data logger

CONTACT US

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