

CarboVis® IQ Series

COD, BOD, TOC, DOC, COLOR, UVT-254 UV-VIS
AND UV SENSORS FOR IQ SENSORNET



For more information visit:
YSI.com/CarboVis

The **CarboVis®** is a reagent-free, optical spectrophotometer built for rugged field use within the IQ SensorNet system. It measures up to five parameters, including COD (total/soluble), BOD, UVT-254, TOC, DOC and SAC (total/soluble), with optional color and TSS monitoring.



256 wavelength scans per measurement deliver better accuracy and effective interference compensation.



UVT-254 measurement determines UV light intensity and contact time for disinfection, reducing facility costs.



Factory-calibrated for specific wastewater applications with optional user calibration for added flexibility.



UltraClean™ technology minimizes maintenance with ultrasonic cleaning.



2-year factory warranty included, with an optional 5-year extended warranty for long-term peace of mind.



a **xylem** brand

CarboVis® Sensor Options:

5 mm Gap Sensors

- **CarboVis® 705 IQ**
measuring COD, BOD, TOC, DOC, and UVT-254
- **CarboVis® 705 IQ TS**
measuring TSS, COD, BOD, TOC, DOC, and UVT-254
- **CarboVis® 705 IQ TS Co**
measuring TSS, Color, COD, BOD, TOC, DOC, and UVT-254

1 mm Gap Sensors

- **CarboVis® 701 IQ**
measuring COD, BOD, TOC, DOC, and UVT-254
- **CarboVis® 701 IQ TS**
measuring TSS, COD, BOD, TOC, DOC, and UVT-254



5 mm gap (left) vs.
1 mm gap (right).

General

Calibration Capability	Factory calibrated; user calibration available
Wavelength Range	200-390 nm or 200-720 nm
Interfaces	N/A
Flow Rate	< 10 ft/s (3 m/s)
Response Time	User selectable 3 to 60 minutes
Lightning Protection	Yes
Power Consumption	8 W Max
Maximum Pressure	1 bar (14.5 psi) with sensor connection cable
Electrical Connections	2-wire shield cable with quick sensor connection
Conformance Certifications	CE, cETLus, UKCA UL 61010-1, CAN/CSA C22.2 #61010.1
Temperature Conditions	32 °F to + 113 °F (0 °C to + 45 °C)
Material	Titanium Grade 2, PEEK, Sapphire glass
Protection Class	IP-68; waterproof
Dimensions	30.5 L x 2.4 D inch (774 L x 60 D mm)
Weight	8.4 lbs. (3.8 kg)
Warranty	2 years

Technical Data

Parameters	Range (5 mm Gap)	Range (1 mm Gap)
COD (total)	0.0 to 800 mg/L	0 to 20000 mg/L
COD (soluble)	0.0 to 800 mg/L	0 to 12500 mg/L
TOC	0.0 to 500 mg/L	0 to 20000 mg/L
DOC	0.0 to 500 mg/L	0 to 12500 mg/L
BOD	0.0 to 500 mg/L	0 to 8000 mg/L
SAC 254 (total)	0.0 to 600.0 1/m	0 to 5000 1/m
SAC 254 (soluble)	/	0 to 5000 1/m
UVT 254 (total)	0.0 to 100.0%	0 to 100.0%
UVT 254 (soluble)	/	0 to 100.0%
TSS	0.0 to 900.0 mg/L	0.00 to 20 g/L
Hazen 340	8 to 1050 mg/L Pt/Co	/
Hazen 350	8 to 1150 mg/L Pt/Co	/
Hazen 390	8 to 2100 mg/L Pt/Co	/
Hazen 445	150 to 10000 mg/L Pt/Co	/
Hazen 455	150 to 10000 mg/L Pt/Co	/
Hazen 465	150 to 10000 mg/L Pt/Co	/
ISO 410	20 to 5300 mg/L Pt/Co	/

