

NiCaVis[®] IQ Series

NITRATE, NITRITE, CARBON, COLOR, UVT-254 UV-VIS
AND UV SENSORS FOR IQ SENSORNET



For more information visit:
[YSI.com/NiCaVis](https://www.ysi.com/NiCaVis)

The **NiCaVis[®]** is a reagent-free, optical-based spectrophotometer housed in a durable, corrosion-resistant field probe for the IQ SensorNet system. It measures UVT-254 to optimize UV light intensity and contact time, helping facilities reduce disinfection costs.



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



Nitrite UV probe measures between 200 and 390 nm, enabling precise differentiation between nitrate and nitrite, while UV-VIS measures between 200 and 720 nm.



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

NiCaVis® Sensor Options:

5 mm Gap Sensors

- **NiCaVis® 705 IQ**
measuring Nitrate, COD, BOD, TOC, DOC, and UVT-254
- **NiCaVis® 705 IQ TS**
measuring TSS, Nitrate, COD, BOD, TOC, DOC, and UVT-254
- **NiCaVis® 705 IQ TS Co**
measuring Color, TSS, Nitrate, COD, BOD, TOC, DOC, and UVT-254
- **NiCaVis® 705 IQ NI**
measuring Nitrite, Nitrate, COD, BOD, TOC, DOC, and UVT-254

1 mm Gap Sensors

- **NiCaVis® 701 IQ NI**
measuring Nitrite, Nitrate, 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

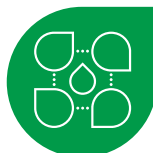
Technical Data

Parameters	Range (5 mm Gap)	Range (1 mm Gap)
NO3	0.0 to 250.0 mg/L	0.0 to 750.0 mg/L
NO3-N	0.00 to 50 mg/L	0.00 to 150.0 mg/L
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
UVT 254 (total)	0.0 to 100.0%	0 to 100.0%
NO2	0.0 to 100 mg/L	0.0 to 300 mg/L
NO-2	0.00 to 25.00 mg/L	0.00 to 75.00 mg/L
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	/

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Municipal
Water



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