

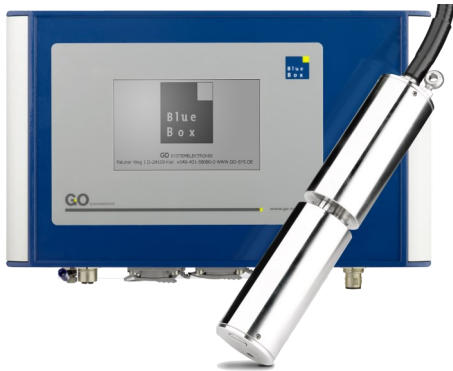


Innovation in Environmental & Process Technology

We **Understand** Water & Waster Monitoring

Uv-Vis Spectrometer for In-Situ Analysis - ISA

Combines Chemometric Spectroscopy with Waste Water & Water Analysis



Transmitter & Cleaning compressor
can be installed in a compact
weatherproof housing

Multi-parameters:

- COD / BOD / TOC equivalent
- Nitrate / Nitrite
- Turbidity
- Spectral Fingerprints
- Non-absorbing NH₃, PO₄

Applications:

- Effluent Monitoring
- River Water
- Potable Water Intakes
- Site specific calibrations
- Process Monitoring

Features:

- Reagent free measurement
- Adjustable path length
- Integrated air clean function
- Fibre optic cable to sensor with no electronics in the sensor head
- Open Access calibration Software
- Flexible install options within different size weatherproof housings



Flexible install options for
ease of deployment

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| System Specification | |
|--------------------------|---|
| Operation principle | UV-VIS spectrum 200 - 720 nm |
| Measuring principle | Spectral Analysis |
| Optical Path Length | 0.5 - 20mm |
| Frequency of measurement | < 60 seconds |
| Light source | Xenon flash light |
| Parameters - Organics | COD / TOC / BOD equivalent ; SAC |
| Parameters - Non-organic | Nitrate / Nitrite / Turbidity / Non-absorbent including NH3 / PO4 |
| Spectral | Spectral Fingerprint for water quality assessment / Toxic detection |
| Calibration Method | Chemometric Statistical Analysis using optional ISA plus software |

| Transmitter Specification | | |
|---------------------------|------------------------|------------------------------------|
| Construction | Dimensions (h x w x d) | 170 x 280 x 90 mm |
| | Weight | 2.6 kg |
| | Materials | Aluminium die cast housing |
| | Environmental | -0-40°C |
| | Weather Protection | IP65 std |
| Outputs | Display | Graphic / Colour touch panel |
| | Analogue: | 2x 4- 20mA standard |
| | Digital: | 2x digital standard |
| | Data interface: | Canbus modular connectivity |
| | Database: | SQL System software |
| Remote access | Cellular Modules: | Internet Data access |
| Air cleaning control | Integrated Valve: | User selectable cleaning frequency |
| Power Requirements | Supply: | 18-36v dc |
| | Load: | Typical 0.7 a ; 15W |

| Sensor Assembly Specification | | |
|-------------------------------|-------------------------|------------------------------|
| Construction | Dimensions | 230mm x 44mm dimensions |
| | Weight | 0.8 kg |
| | Materials | SS 316 ; Titanium option |
| | Environmental | -10 °C to 110 °C |
| | Weather protection | IP 68 ; ATEX Options |
| Connection | Fibre Optic Cable | 5m Standard ; options to 20M |
| Air cleaning | External air compressor | Max 4 bar |

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