

ISA - UV/Vis Spectrometer System

The ISA - UV/Vis

Spectrometer System is a compact UV/Vis spectrometer that allows the simultaneous determination of a variety of parameters, such as COD, Nitrate, TOC, TSS, BOD & DOC with one optical sensor.

Available parameters

The ISA UV/Vis spectrometer is always calibrated on-site using laboratory values. This customer-specific calibration ensures high measurement accuracy and the selection of the correct wavelengths. The system can be calibrated to the following parameters:

Ammonium, Biochemical oxygen demand (BOD), Chemical oxygen demand (COD), Colour, Dissolved organic carbon (DOC), Total phosphorus (TP), Total nitrogen (TN), Total organic carbon (TOC), Total suspended solids (TSS), Nitrate, Nitrite, Orthophosphate, SAC, Turbidity, UVT



Functions & Features



Customized Calibration



Calibration Monitoring (SQL)



Adjustable Optical Path Length



External Electronics



Deployable up to +110 °C



ATEX Certified





Automatic Cleaning



No Consumables



Monitoring Function



Intelligent Event Handling



Remote Access & Control



Technical data Controller



Controller included in delivery: BlueBox RS

Power supply: 24 V DC

Power consumption (typical): 10 W

Aluminium housing (WxHxD): 330 mm x 220 mm x 93 mm, IP 65

Weight: ca. 3.3 kg

Memory: 8 GB

Colour Touch Panel: 7"

Ambient temperature: -20 to +45 °C

Available languages of the operating system: English and German, others on request.

Interfaces:

1x RS232/RS485 (with 12V, 6W power) as interface or for the connection of sensors

1x CAN Bus

1x Ethernet 10/100MBit

1x Pulse input (PNP/NPN selectable)

1x Slot for freely selectable BlueConnect Sensor or I/O card

(e.g. analogue pH or 2x 4-20 mA output)

1x connection (4 mm) for compressed air cleaning

GPRS/UMTS/LTE/4G Modem (selectable option)

WIFI (selectable option)

Technical data ISA Spectrometer



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Article number: 486 00RS-ISA-Option1-UV-Option2

Pos.	Option 1: Length of fibre optic cable & material	Art. no.
1	2,5 m, V4A	-2V
2	6 m, V4A	-6V
3	10 m, V4A	-10V
4	2,5 m, Titanium	-2T
5	6 m, Titanium	-6T
6	10 m, Titanium	-10T

Pos.	Option 2: additional interfaces	Art. no.
7	without LTE Modem & WIFI	-/
8	withLTE Modem	-LTE
9	with WIFI	-WIF
10	with LTE Modem & WIFI	-LnW

Example configuration art. no. **486 00RS-ISA-2V-UV-/**

