

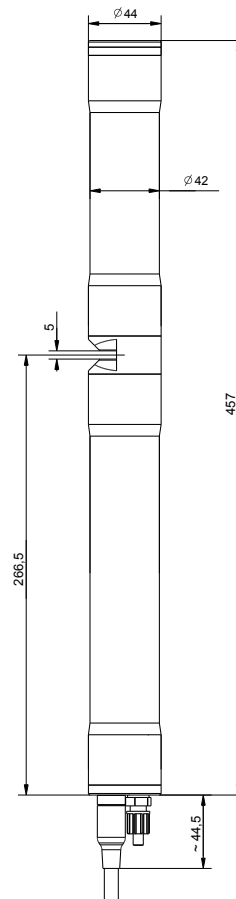
uv::lyser V - V3

uv::lyser V monitors TSS and up to 4 freely selectable wavelenghts

- measuring principle: UV-Vis spectrometry over the total range (190-750 nm)
- web server on board - IoT enabled, no user software is needed to configure the probe
- communicates directly with your mobile device via WLAN
- 8 GB onboard memory - capacity for logging data for many years
- improved optical performance - revolutionary precision
- fast measurement interval - every 10 seconds possible
- extremely power efficient - sleep mode for low energy consumption
- multiparameter probe with 1 mm, 5 mm or 35 mm optical path length, ideal for waste water, surface water and drinking water
- long term stable and maintenance free in operation
- factory precalibrated, local multi-point calibration possible
- automatic cleaning with compressed air or brush

recommended accessories

| part number | article name |
|----------------|--|
| D-330-xxx | con::cube V3 |
| D-320-pro2-230 | con::lyte pro |
| B-33-012 | con::nect V3 |
| B-32-xxx | s::can compressor |
| B-44 | cleaning valve |
| B-44-2 | |
| C-32-V3 | Adapter cable to connect a V3 spectrometer (M12) to V2 Terminal (MIL Plug) |
| F-110-V3 | carrier s::can spectrometer V3 & V2 probe, 45° |
| F-120-V3 | carrier s::can spectrometer V3 & V2 probe, vertical attachment |
| F-48-V3 | spectrometer V3 & V2 flow-cell (bypass setup), PVC |
| S-11-xx-moni | moni::tool Software |



technical specification

| | | | |
|--|---|--|--|
| measuring principle | UV-Vis spectrometry 190 - 750 nm | cable length | 1 m fixed cable (-010) or 7.5 m fixed cable (-075) or 15 m fixed cable (-150) |
| measurement interval | 10 sec (configurable, depending on application) | cable type | PU jacket |
| automatic compensation cross sensitivities | turbidity / solids / organic substances | housing material | stainless steel 1.4404 |
| precalibrated ex-works | all parameters | window material | optical path length 5 and 1 mm: sapphire optical path length 35 mm: fused silica (UV-grade) |
| accuracy standard solution (>1 mg/l) | NO ₃ -N: +/- 3% +1/OPL[mg/l]* COD-KHP: +/-3% +10/OPL[mg/l]* (* OPL ... optical pathlength in mm) | weight (min.) | 3.4 kg (incl. cable) |
| access to raw signals | no | dimensions (Ø x l) | optical path length 35 mm: 44 x 473 mm / 517.5 mm optical path length 5 mm: 44 x 457 mm / 501.5 mm optical path length 1 mm: 44 x 453 mm / 497.5 mm |
| reference standard | distilled water | operating temperature | 0 ... 45 °C |
| onboard memory | 8 GB | operating pressure | 0 ... 3 bar |
| integrated temperature sensor | 0 ... 45 °C | high pressure specification (optional) | 10 bar |
| resolution temperature sensor | 0.1 °C | installation / mounting | submersed or in a flow cell |
| integration via | con::cube V3 con::nect V3 con::lyte V5 (D-320-pro2) and adapter cable (C-32-V3) | flow velocity | 3 m/s (max.) |
| power supply | 10 ... 18 VDC | mechanical stability | 30 Nm |
| power consumption (typical) | 3 W | ingress protection class | IP68 |
| power consumption (sleep model) | 60 mW | automatic cleaning | media: compressed air or autobrush permissible pressure: 3 ... 6 bar |
| power consumption (max.) | 20 W | storage temperature | -10 ... 65 °C |
| interface to s::can terminals | M12 RSTS 8Y (IP67), RS485, Ethernet | conformity - environmental testing | EN 60721-3 |
| interface to third party terminals | con::nect V3 incl. Modbus RTU, REST API, Modbus TCP/IP | conformity - EMC | EN 61326-1 |
| digital interface (for cleaning devices) | 1 digital in/out 1 digital out | conformity - RoHS 2 | EN 50581 |
| network connection | 100Base-T Ethernet, WLAN | standard warranty | 2 years |
| status information | RGB LED ring | extended warranty (optional) | 3 years |
| internal sensors | supply voltage sensor, tilt sensor, rotation sensor | | |

municipal WWTP influent & sewer

| | | parameter | | | |
|---|------|------------|---------------|-----------------|-------------------|
| | | TSS [mg/l] | UV254 [Abs/m] | UV254 f [Abs/m] | part number |
| uv::lyser V (5 parameters, 5 mm OPL) | min. | 0 | 0 | 0 | G3-U5-I-05-NO-xxx |
| | max. | 1200 | 500 | 420 | |
| uv::lyser V (5 parameters, 1 mm OPL) | min. | 0 | 0 | 0 | G3-U5-I-01-NO-xxx |
| | max. | 8000 | 3300 | 2800 | |

municipal WWTP effluent

| | | parameter | | | |
|---|------|------------|---------------|-----------------|-------------------|
| | | TSS [mg/l] | UV254 [Abs/m] | UV254 f [Abs/m] | part number |
| uv::lyser V (5 parameters, 5 mm OPL) | min. | 0 | 0 | 0 | G3-U5-E-05-NO-xxx |
| | max. | 600 | 500 | 420 | |