

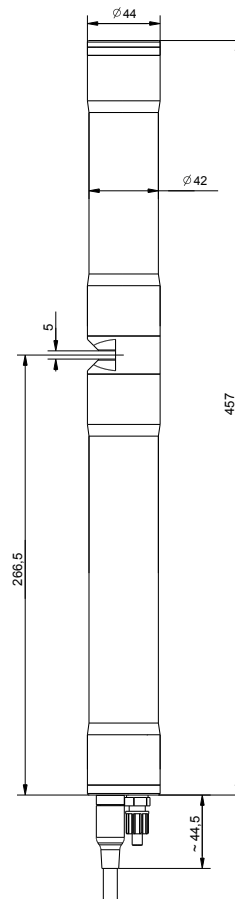
# ozo::lyser II - V3

ozo::lyser II monitors TSS & ozone

- 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 Bluetooth or 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   |
|--------------|--|
| B-32-xxx     | s::can compressor  |
| B-33-012     | con::nect V3   |
| B-44         | cleaning valve   |
| B-44-2       |  |
| D-330-xxx    | con::cube V3   |
| F-110-V3     | carrier s::can spectrometer V3 & V2 probe, 45°                     |
| F-120-V3     | carrier s::can spectrometer V3 & V2 probe, for 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<br>7.5 m fixed cable (-075) or<br>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:<br>sapphire<br>optical path length 35 mm:<br>fused silica (UV-grade)   |
| accuracy standard solution (>1 mg/l)       | NO <sub>3</sub> -N: +/- 3% +1/OPL[mg/l]*<br>COD-KHP: +/-3% +10/OPL[mg/l]*<br>(* 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:<br>44 x 473 mm / 517.5 mm<br>optical path length 5 mm:<br>44 x 457 mm / 501.5 mm<br>optical path length 1 mm:<br>44 x 453 mm / 497.5 mm |
| reference standard                         | distilled water   | operating temperature                  | 0 ... 45 °C  |
| onboard memory                             | 8 GB  | storage temperature                    | -10 ... 65 °C  |
| integrated temperature sensor              | 0 ... 45 °C   | operating pressure                     | 0 ... 3 bar  |
| resolution temperature sensor              | 0.1 °C  | high pressure specification (optional) | 10 bar   |
| integration via                            | con::cube V3<br>con::nect V3<br>con::lyte V5 (D-320-pro2) and<br>adapter cable (C-32-V3)                          | installation / mounting                | submersed or in a flow cell  |
| power supply                               | 10 ... 18 VDC   | flow velocity                          | 3 m/s (max.)   |
| power consumption (typical)                | 3 W   | mechanical stability                   | 30 Nm  |
| power consumption (sleep model)            | 60 mW   | ingress protection class               | IP68   |
| power consumption (max.)                   | 20 W  | automatic cleaning                     | media: compressed air or autobrush<br>permissible pressure: 3 ... 6 bar  |
| interface to s::can terminals              | M12 RSTS 8Y (IP67), RS485,<br>Ethernet  | conformity - environmental testing     | EN 60721-3   |
| interface to third party terminals         | con::nect V3 incl. Modbus RTU,<br>REST API, Modbus TCP/IP   | conformity - EMC                       | EN 61326-1   |
| digital interface (for cleaning devices)   | 1 digital in/out<br>1 digital out   | conformity - RoHS 2                    | EN 50581   |
| network connection                         | 100Base-T Ethernet, Bluetooth,<br>WLAN  | standard warranty                      | 2 years  |
| status information                         | RGB LED ring  | extended warranty (optional)           | 3 years  |
| internal sensors                           | supply voltage sensor, tilt sensor,<br>rotation sensor  |  |  |

### municipal WWTP effluent

|   |      | parameter  |                       | part number       |
|---|------|------------|-----------------------|-------------------|
|   |      | TSS [mg/l] | O <sub>3</sub> [mg/l] |                   |
| ozo::lyser II<br>(2 parameters, 5 mm OPL) | min. | 0          | 0                     | G3-02-E-05-N0-xxx |
|   | max. | 600        | 180                   |                   |