The ammo::lyser

s::can
liquid monitoring networks
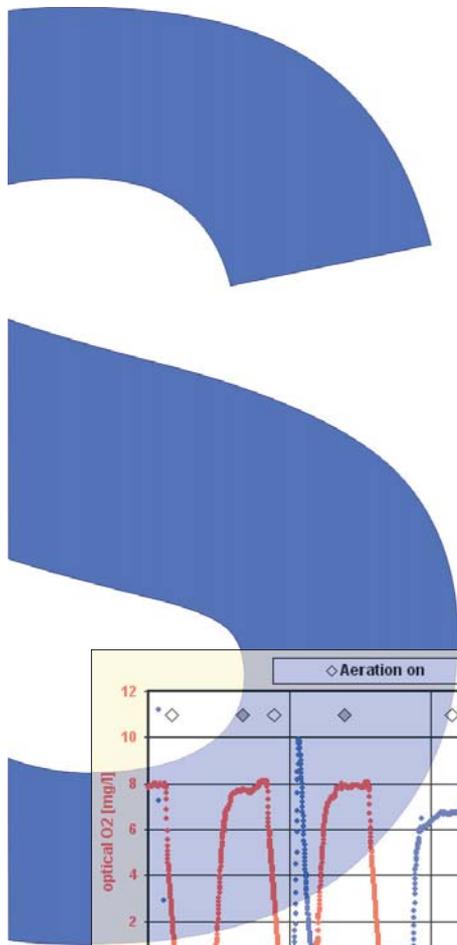
Ion Selective Ammonium - Plug & Measure

- **Principle of Operation**: The ammo::lyser monitors the concentration of ammonium ions insitu using an ammonium selective electrode. A robust ion selective membrane in the electrode separates the ammonium ions from the water.

- **Build in compensation:** To compensate automatically for possible remaining cross-sensitivities the ammo::lyser is equipped with sensors for pH, temperature and potassium. The readings of these sensors can also be displayed online.

- **Easy operation**: The ammo::lyser is another s::can product that follows the idea of Plug & Measure instruments. A brief initial calibration is all that is necessary at the start-up. Then the system is ready to run.

- **Low Maintenance**: The ammo::lyser uses ion selective electrodes with a long lifetime: exchange of membranes is typically required only once every 4 - 6 months.

- **Calibration**: A check of the calibration every two weeks is recommended, which can be performed while the ammo::lyser remains submerged.

- **Cleaning**: The ammo::lyser is self cleaning, using a compressed air system common to all s::can measuring devices. Manual cleaning of the electrodes is not required, significantly reducing maintenance.

- **Costs of Operation**: Operational costs are low because of the long lifetime of the ion selective membranes. As the electrodes themselves need no replacement, costs of ownership are reduced to a minimum.

- **Applications**: Can be used in all kinds of water: surface water (rivers, lakes), ground water, drinking water, waste water (influent, aeration tank, effluent).

- **Controllers**: The ammo::lyser is a smart sensor. It is fully compatible with all types of s::can software and terminals and fully integrated into all s::can monitoring systems via RS485.

- **Installation:** The ammo::lyser is a fully waterproof, submersible device and can be installed quickly and easily at any place by its 1 1/2 inch internal screw thread.

Measuring principle ················	**Ammonium Selective Electrode Compensated for Potassium, pH and temperature**
Measuring range ················	**0.1 - 1000 mg/L NH4-N**
Accuracy ················	**3 % of the reading, after calibration**
Response time ················	**1 minute**
Temperature Sensor ················	**Pt100, -10 - +100 °C**
pH sensor ················	**glass electrode, pH 2- 12**
Potassium sensor ················	**ion selective, 0.1 - 1000 mg/L**
Automatic Cleaning ················	**equipped for cleaning with compressed air or water**
Sensor diagnosis ················	**automatic self diagnostics**
Power ················	**12 V DC, provided by any s::can terminal**
Interface ················	**RS485 Modbus RTU directly to s::can terminal**