

### DESCRIPTION

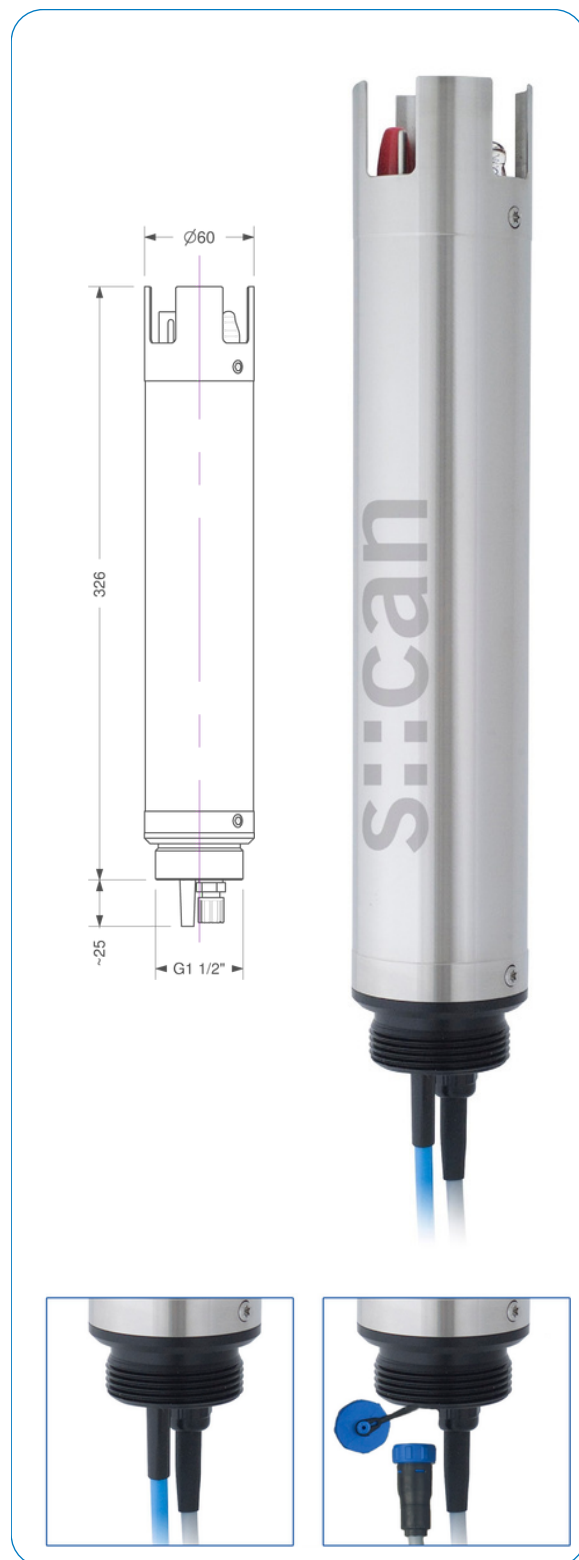
- ammo::lyser III pro monitors  $\text{NH}_4\text{-N}$  and temperature
- ammo::lyser IV pro+pH monitors  $\text{NH}_4\text{-N}$ , temperature and pH
- ammo::lyser IV pro+ $\text{NO}_3\text{-N}$  monitors  $\text{NH}_4\text{-N}$ , temperature and  $\text{NO}_3\text{-N}$

### FEATURES

- s::can plug & measure
- Measuring principle: ISE (ion-selective electrodes) - with potassium compensation
- Multiparameter probe
- Long-term stable, factory precalibrated
- Automatic cleaning with compressed air
- Easy & quick mounting and measurement directly in the media (InSitu) or in a flow cell (monitoring station)
- ISE refurbishment - the easy way to minimize maintenance
- Unique, non-porous / non-leaking reference electrode for technically unrivalled and consistent performance
- Operation via s::can terminals & s::can software
- Automatic temperature and potassium compensation, pH compensation possible
- Ideal for surface water, ground water, drinking water and wastewater
- Minimal maintenance
- Lifetime of ISE: typically 6 month (for applications  $<1\text{mg/l NH}_4\text{-N}$ ), resp. 1 to 2 years (for applications  $>1\text{mg/l NH}_4\text{-N}$ )
- Plug connection or fixed cable
- Automatic compensation against cross-sensitivities (potassium & pH, optional)

### RECOMMENDED ACCESSORIES

| Part Number B- | Article Name                                            |
|----------------|---------------------------------------------------------|
| 44             |                                                         |
| B -44-2        | Cleaning valve                                          |
| C-1-010-sensor | 1 m connection cable for s::can physical and ISE probes |
| F-11-oxi-ammo  | Carrier oxi::lyser / soli::lyser / s::can ISE probes    |
| F-45-ammo      | Flow cell for ammo::lyser                               |
| D -330-xxx     | con::cube V3                                            |
| D -320-xxx     | con::lyte                                               |



TECHNICAL SPECIFICATIONS

|                              |                                                                                                                       |                                 |                                                                      |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------|
| Measuring Principle          | ISE                                                                                                                   | Weight (Min.)                   | 2.7 kg                                                               |
| Measuring Principle Detail   | NH4-N: ionophore membrane<br>K: ionophore membrane<br>pH: non-porous reference electrode<br>NO3-N: ionophore membrane | Dimensions (Ø × l)              | 60 × 326 mm                                                          |
| Resolution                   | NH4-N, K, NO3-N, Cl, F:<br>0.01 at 0.02–19.99 mg/l<br>0.1 at 20.0–99.9 mg/l<br>1 at 100–1000 mg/l<br>T: 0.1 °C        | Operating Temperature           | 0 to 60 °C                                                           |
| Accuracy (Standard Solution) | NH4-N: +/-3% or +/-0.1mg/l*<br>(*whichever is greater)                                                                | Operating Pressure              | 0–1 bar                                                              |
| Automatic Compensation       | E-532-pro-xxx: temp, K                                                                                                | Installation / Mounting         | Submersed or in a flow cell                                          |
| Cross Sensitivities          | E-532-pro-pH-xxx: temp, pH, K<br>E-532-pro-NO3-N-xxx: temp, K                                                         | Process Connection              | Bayonet                                                              |
| Precalibrated Ex-Works       | All parameters                                                                                                        | Flow Velocity                   | 0.01 m/s (min.)<br>3 m/s (max.)                                      |
| Response Time (T90)          | 0–120 sec.                                                                                                            | Automatic Cleaning              | Media: compressed air<br>Permissible pressure: 2–4 bar<br>2 to 40 °C |
| Integration Via              | connect<br>cable                                                                                                      | Storage Temperature (Electrode) | 2 to 40 °C                                                           |
| Power Supply                 | 10–30V DC                                                                                                             | Storage Temperature (Sensor)    | EN 50081-1<br>EN 50082-1<br>EN 60555-2                               |
| Power Consumption (Typical)  | 0.72 W                                                                                                                | Conformity - EMC                | EN 60555-3<br>EN 61010-1                                             |
| Interface to scan Terminals  | Sys plug (IP67), RS485                                                                                                | Conformity - Safety             | IP67<br>IP68                                                         |
| Cable Length                 | 7.5 m fixed cable (-075) or<br>plug connection (-000)                                                                 | Protection Class (-000)         |                                                                      |
| Cable Type                   | PU jacket                                                                                                             | Protection Class (-075)         |                                                                      |
| Housing Material             | Stainless steel 1.4571, POM-C                                                                                         |                                 |                                                                      |

MEASURING RANGE

|                                                     |      | Parameter       |                 |            |               |                     | Part Number                |
|-----------------------------------------------------|------|-----------------|-----------------|------------|---------------|---------------------|----------------------------|
|                                                     |      | NH4-N<br>[mg/l] | NO3-N<br>[mg/l] | pH<br>[pH] | Cl-<br>[mg/l] | Temperature<br>[°C] |                            |
| ammo::lyser III pro<br>(NH4-N, K, temp)             | min. | 0.1             | —               | 1          | —             | 0                   | E-532-pro-000 / -075       |
|                                                     | max. | 1000            | —               | 1000       | —             | 60                  |                            |
| ammo::lyser IV pro+NO3-N<br>(NH4-N, NO3-N, K, temp) | min. | 0.1             | 0.3             | 1          | —             | 0                   | E-532-pro+NO3-N-000 / -075 |
|                                                     | max. | 1000            | 1000            | 1000       | —             | 60                  |                            |
| ammo::lyser IV pro+pH<br>(NH4-N, pH, K, temp)       | min. | 0.1             | —               | 1          | 2             | 0                   | E-532-pro+pH-000 / -075    |
|                                                     | max. | 1000            | —               | 1000       | 12            | 60                  |                            |