

S470



Applications

-  Drinking water
-  Wastewater
-  Fish farming

General features

Sensor with ion-selective electrodes (ISE: Ion-selective electrodes) suitable for monitoring ammonium ion (such as NH_4^+ or NH_4^-N) and nitrate (such as NO_3^- or NO_3^-N) in a liquid matrix.

Particular attention was paid to identifying a set of stable and at the same time sensitive sensors. For this purpose, a particularly performing reference electrode has also been introduced with a high capacity to compensate for pollutants. The following versions are available:

S470 NH_4^+ - Ammonium ion sensor with potassium ion compensation.

S470/N NO_3^- - Nitrate ion sensor with chloride ion compensation.

S470/N Combined sensor - Combined sensor for ammonium and nitrate ions with compensation of potassium and chloride ions.

All specific electrodes are individually replaceable



Technical specifications

Measurement range	NH_4 : 0...100 ppm K^+ : 0...1000ppm NO_3 : 0...100 ppm Cl^- : 0...1000 ppm
Diameter	36 mm
Body material	Probe body in AISI 316
Electrode material	Protection, electrode housing and black PVC cap
O-Rings	NBR
Mechanical protection	IP68 sensor & cable
Resolution	0.1 mg/l
Accuracy	± 5 mg/l
Repeatability	$\pm 5\%$
Operating temperature	5 - 40°C
Maximum operating pressure	1 bar
Power supply	12...24Vdc
Signal interface	Modbus RTU Standard Protocol
Temperature sensor	PT100 included