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PRODUCTS > SENSORS

ART. NO. 461 7410

Ion-selective electrode for ammonium



The ammonium selective electrode is a matrix membrane electrode with a fluid contact. The flexible ammonium selective membrane is made from a special ion exchanger who is dissolved in an organic solvent and embedded into a PVC matrix.

Technical data:

Parameter: NH_4^+
 Measuring principle: Ion-selective Electrode
 Measuring range: $1 \cdot 10^{-5} \dots 1 \text{ mol/l}$, $0,2 \dots 18.000 \text{ mg/l}$
 Slope: $57 \pm 2 \text{ mV/p NH}_4^+$
 Response time: $< 30 \text{ s}$ (in 180 mg/l NH_4^+ -solution)
 Stability: $\pm 0,3 \text{ mV}$ (30 min), $\pm 1 \text{ mV}$ (24h)
 Working temperature: $0 \dots 40 \text{ }^\circ\text{C}$
 Max. allowed working pressure: 1 bar
 pH-range: pH 3 ... pH 7
 Resistance: $\sim 1 \text{ M}\Omega$

Interferences:

$\text{Ca}^{2+}/\text{NH}_4^+ = 10.000$, $\text{Mg}^{2+}/\text{NH}_4^+ = 10.000$, $\text{Na}^+/\text{NH}_4^+ = 1.000$, $\text{H}^+/\text{NH}_4^+ = 100$, $\text{K}^+/\text{NH}_4^+ = 10$,
 Ion/ NH_4^+ -Relation between interfering and measure ions at 10% error

Housing:

Material: plastic (black)
 Dimensions: length: 145 mm, diameter: 12 mm
 Immersion depth: 120 mm
 Screw plug connector with PG13.5

Required cable: Art.no. 439 0501

