

S 494 Cl₂ (4.1) Amperometric membrane Sensor for Residual Chlorine

Typical application fields	Pool, drinkable, service and process waters. The sample mustn't contain tensioactives; pH value must be constant
Measuring System	Amperometric, with 2 Membrane-coated electrodes, with internal electrolyte
Interferences	presence of chlorine dioxide causes positive interference in the measured value, the presence of ozone generates strong disturbances in the measured value
Measuring range	>0,01 till <20,0mg/l
Accuracy	±2% of the measured value
Reproducibility	±2%
Stability	±1% of the analytically determination, after 4 weeks from the calibration
Sample's speed through the membrane	15cm/s
Hydraulic flow	30-40 l/h (constant)
Tolerable Overpressure	1 bar
Operating Temperature	0 – 45°C
Temperature's compensation	Automatic, via integrated NTC sensor
Operating pH range	From 4 to 8
Time of first polarization	1h
Time of re-polarization	10min
Time of response	T90: approx 30s
Calibration of "0" point	Not necessary
Calibration of operating point	If needed by the user, through analytical determination (colorimetric reaction with DPD)
Construction Materials	PVC, silicone, PTFE
Material of the membrane	PTFE (=Teflon) semipermeable
Electrolyte solution	Water solution with Potassium Chloride
Measuring Electrode (Cathode)	Gold
Reference electrode (Anode)	Silver/Halogenated Silver
Dimensions	Approx. 25 mm diameter, lengthness 175 mm
Maintenance interval	2 weeks or more
Lifetime of the electrolyte solution	Approx. 1 year



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