



S494 DATASHEET AMPEROMETRIC MEMBRANE SENSOR



ANALYZERS & SAMPLERS



LEVEL, FLOW & PRESSURE



WEB APP & DATALOGGING



ACCESSORIES



MAIN FEATURES

- Two membrane-coated electrodes for the measurement of free inorganic chlorine at constant pH.
- Integrated temperature sensor for signal compensation

APPLICATIONS

- Swimming Pool
- Drinkable
- Service and process waters
- Tensioactives are partially tolerated

S494 DATASHEET

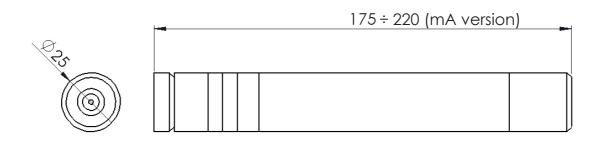


TECHNICAL DATA

Materials	PVC-U body • Semipermeable membrane
Measurand(s)	NaClO (sodium hypochlorite), Ca(ClO) ₂ (calciumhypochlorite), Cl ₂ (chlorine gas), chlorine generated by membrane-electrolysis
Measuring ranges	$\begin{array}{l} 0.01 - 0.50 \\ 0.01 - 2.00 \\ 0.01 - 5.00 \\ 0.01 - 10.00 \\ 0.01 - 20.00 \\ 0.1 - 100 \\ 0.1 - 200 \end{array}$
Calibration	at the controller, via analytical chlorine determination by DPD-1 method
Interferences	 CIO₂ is being registered with factor 9 of its measured value O₃ is registered with membrane-less chlorine electrolysis interferences may occur
pH range	6 - 8
Resolution	0.01ppm for ranges from 0.01ppm to 20.00ppm 0.1ppm for ranges from 0.1ppm to 200.00ppm
Pressure range	 Operation without circlip: 0 – 0.5 bar, no pressure surges and/or vibrations Operation with circlip: 0 – 1.0 bar, no pressure surges and/or vibrations
Temperature range	0-45 °C (no ice crystals in measurement water)
Temperature compensation	Integrated automatic
Time of response	T ₉₀ : aprox 30s
Absence of the disinfectant	max. 24 h
Flow rate	Approx. 15 – 30 l/h, low flow-dependence
Shaft length	Standard 175 mm, and up to 220 mm in length (mA-Version)
Connection	Standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
Output signal	4 – 20 mA
Power supply	$12 - 30 \text{ Vdc}; \text{ R}_{L} = 50 - 900 \Omega$



DIMENSIONS



ORDER CODES

6023020101	S494/05/CL2 Amperometric sensor for free chlorine
6023021201	S494/2/CL2 Amperometric sensor for free chlorine
6023021202	S494/5/CL2 Amperometric sensor for free chlorine
6023021203	S494/10/CL2 Amperometric sensor for free chlorine
6023020102	S494/100/CL2 Amperometric sensor for free chlorine
6023021346	S494/200/CL2 Amperometric sensor for free chlorine