

1.1.1.

DOSA*Sens* Chlorite sensor **MST1**

Sensor for the measurement of chlorite. Membrane-covered, amperometric 3-electrode measuring system.

Product description:

- Measurand(s): Chlorite from acid/chlorite process, chlorine/chlorite-process chlorite/oxidant-process
- Calibration: at the controller, via analytical determination of chlorite
- Interferences: Mn_2^+ , nitrite, Fe_2^+
- No cross-interference to chlorine dioxide, chlorine and chlorate
- pH range: 6–9
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–5.0 bar, without outgassing, no pressure surges and/or vibrations
- Temperature range: 0–40 °C (not any ice crystal in water)
- Integrated automatic temperature compensation
- Response time: T_{90} approx. 1 min.
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h
- Shaft length: standard 190 mm, and up to 220 mm in length (mA-Version)
- Connection: 5-pin M12 screwed plug (mV-, mA-, Modbus RTU-version), 2-pole terminal (mA-Version))
- Material: PVC, Peek, stainless steel 1.4571, membrane

Areas of application:

- Drinking water, swimming pool water, service water, process water.

Scope of supply:

- DOSA*Sens* **MST1** sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
MST1H-M12	0.005–2.000	0.001	0 to -2000 mV, 1 k Ω	$\pm 5 \dots 15$ VDC, 10 mA	3626240
MST1N-M12	0.05–2.00	0.01			3626241
MST1H-An-M12	0.005–2.000	0.001		9–30 VDC approx. 20–56 mA	3626250
MST1N-An-M12	0.05–2.00	0.01			3626251
MST1H-M0c	0.005–2.000	0.001	Modbus RTU	approx. 20–56 mA	3326410
MST1N-M0c	0.05–2.00	0.01			3326411
MST1MA2	0.005–2.00	0.001	4–20 mA	12–30 VDC $R_L = 50–900 \Omega$	3326440
MST1MA2-M12					3326441

Additional technical data:

Type:	Slope:	Cable connection:	Special characteristics:
MST1H-M12	-1000 mV/ppm	5-pin M12 screwed plug	Connection only to a controller with galvanically separated power supply.
MST1N-M12	-100 mV/ppm		
MST1H-An-M12	-100 mV/ppm		-
MST1N-An-M12			
MST1H-M0c	Modbus RTU		
MST1N-M0c			
MST1MA2	8.0 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
MST1MA2-M12			

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M48.2	MST1 (all types)	9026020
Electrolyte EMST1/Gel	MST1 (all types)	9026053

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, chlorite	90231010