

SE 706 Memosens Oxygen Sensor

Sensor in robust and hygienic stainless steel design, high accuracy and low detection limit, simple and fast maintenance due to special membrane, digital, with Memosens technology

Reliable in-line measurement of dissolved oxygen, even under sterile and hygienic conditions. High signal stability. Simple maintenance due to modular design. Special membrane with steel mesh and PTFE coating. Sterilizable, autoclavable and CIP capable. Also suitable for use in hazardous locations.

Applications
Biotechnology, pharmaceutical industry, fermentation, various fields of analytical chemistry

Facts
- perfect galvanic isolation thanks to Memosens technology
- no influence of humidity in the connector
- precalibration in the lab
- digital data transfer
- integrated sensor diagnostics
- high level of process safety
- durable materials
- robust design
- easy to clean thanks to extremely smooth surface
- cost-efficient service due to easy-to-replace membrane module and interior body
- hygienic design
- high resolution of 6 ppb
- operation also in hazardous locations

Specifications

Range:	pO_2 < 1200 mbar
Detection limit:	6 ppb
Accuracy:	1 % + 4 ppb
Response time at 25 °C (air –> N_2):	98 % full scale < 90 s
Signal in ambient air:	50 … 110 nA
Residual signal in O_2-free medium:	≤ 0.1 % of signal in ambient air
Flow dependence:	≤ 5 %
Permissible pressure range (measurement):	0.2 … 6 bar absolute
Mechanical pressure resistance:	max. 12 bar absolute
Permissible temperature range (measurement):	0 … 80 °C
Temperature range (stability):	–5 … +135 °C (steam sterilizable/autoclavable)
O-ring material (process-wetted):	silicone (FDA&USP Class VI tested)
Membrane material:	PTFE/silicone/PTFE, FDA compliant (reinforced with steel mesh)
Process-wetted sensor parts:	1.4404 stainless steel (material certificate 3.1B)
Surface roughness:	N 5 (RA < 0.4 µm)
Temperature detector:	NTC 22 kohms
Interior body incl. electrodes:	replaceable (ZU 0567)
Sensor cap:	Memosens
ATEX Certificate:	II 1/2 GD Ex ia IIC T6/T5/T4/T3
Certificates:	3A, 3.1 (EN 10204)

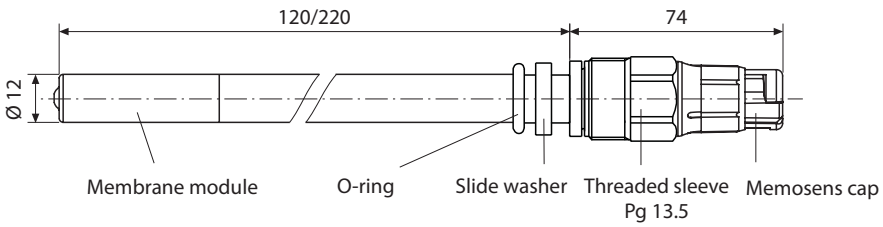
Product Line		Order No.
SE 706 X oxygen sensor	Length 120 mm	**SE 706X/1-NMSN**
	Length 220 mm	**SE 706X/2-NMSN**

Cable		Order No.
Memosens cable	3 m	**CA/MS-003NAA**
	5 m	**CA/MS-005NAA**
	10 m	**CA/MS-010NAA**
	20 m*)	**CA/MS-020NAA**
Memosens cable, Ex	3 m	**CA/MS-003XAA**
	5 m	**CA/MS-005XAA**
	10 m	**CA/MS-010XAA**
	20 m*)	**CA/MS-020XAA**

Accessories		Order No.
O_2 membrane module	separate	**ZU 0563**
O_2 membrane kit	membrane module (4 x), O-ring set (1 x), 25 ml electrolyte (1 x)	**ZU 0564**
O_2 electrolyte	25 ml	**ZU 0565**
Interior body for SE 706		**ZU 0567**
O-ring set	silicone	**ZU 0679**

*) Greater lengths on request

Dimension Drawing



All dimensions in mm