

Sensors for Oxygen Measurement

Water



SE 703 Oxygen Sensor

Low-cost, plastic-coated sensor providing high signal stability for measurement of dissolved oxygen in water/wastewater

Reduced maintenance effort due to special membrane module. Simple and fast calibration in ambient air. Robust special membrane with steel mesh and PTFE coating. High signal stability.

Applications

Water, wastewater, aeration, ventilation control, fish farming, aquariums.

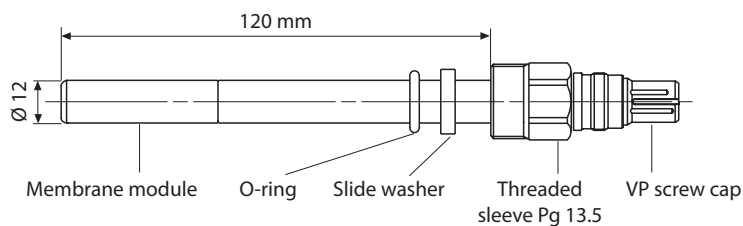
Facts

- high level of process safety
- durable materials
- robust design
- cost-efficient service
- easy-to-replace membrane module
- PTFE-coated membrane prevents undesired deposits
- VP screw cap

Specifications

Range:	$pO_2 < 1200 \text{ mbar}$
Detection limit:	30 ppb
Accuracy:	1 % + 30 ppb
Response time at 25 °C (air → N ₂):	98 % full scale < 90 s
Signal in ambient air:	40 ... 110 nA
Residual signal in O ₂ -free medium:	≤ 0.3 % of signal in ambient air
Flow dependence:	≤ 5 %
Permissible pressure range (measurement):	0.5 ... 2 bar absolute
Mechanical pressure resistance:	max. 2 bar absolute
Permissible temperature range (measurement):	0 ... 60 °C
Temperature range (stability):	0 ... 60 °C
O-ring material:	silicone and FKM (Viton)
Membrane material:	PTFE/silicone/PTFE (reinforced with steel mesh)
Process-wetted sensor parts:	PPS
Temperature detector:	NTC 22 kohms
Process adaptation:	Pg 13.5
Sensor cap:	VP (VarioPin)

Dimension Drawing



For up-to-date information, please visit www.knick.de

Isolation Amplifiers
Transmitters

Indicators

Process Analytics

Portable Meters

Laboratory Meters

Sensors

Fittings

Knick 

Product Line

SE 703 oxygen sensor

Length 120 mm

Order No.

SE 703

Cable

VP6-ST cable

3 m

5 m

10 m

20 m

Order No.

ZU 0313

ZU 0314

ZU 0315

ZU 0584

Accessories

O₂ membrane module

separate

Order No.

ZU 0563

O₂ membrane kit

membrane module (4 x), O-ring set (1 x), 25 ml electrolyte (1 x)

ZU 0564

O₂ electrolyte

25 ml

ZU 0565

O-ring set

silicone

ZU 0679