

## OPTICAL OXYGEN CONVERTER



LOW MAINTENANCE &amp; ROBUST

## HIGHLIGHTS:

- Two 4 ... 20 mA (or 0 ... 5 V) outputs: concentration and saturation
- Fully pressure and temperature compensated
- Calibration in many applications once per year!
- No flow required

## GODOX-200-ST

Art. no. 608019

Optical oxygen transmitter for universal applications, stainless steel

## GODOX-200-PS

Art. no. 608020

Optical oxygen transmitter for continuous measurements in salt water

## General:

The oxygen transmitter GODOX-200 is a robust measuring system for the low-maintenance continuous use. Compared to electrochemical sensors, it comes without electrolyte, measured with a fluorescence-maturity method. Together with the complete data preparation including automatic ambient pressure and temperature compensation it provides a free package for continuous measurements. Measurement in depth up to 30 m is possible. The life of the replaceable measuring membrane is generally 2 years.

## Specifications:

## Measuring ranges (both can be used simultaneously)

Oxygen concentration:	0 ... 20 mg/l (=ppm)
Oxygen saturation:	0 ... 200 % O <sub>2</sub>
Output signal:	4 ... 20 mA or 0 ... 5 V respectively (changeable)
Accuracy:	±0.1 mg/l less than 1 mg/l, ±0.2 mg/l more than 1 mg/l
Response time T <sub>90</sub> :	<30 s
Operating temperature:	0 ... 65 °C

Supply:	5 ... 15 V DC, approx. 160 mA
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## Material

Housing:	PVC / stainless steel, option „marine“: PVC
Diaphragm:	PET

## Dimensions sensor

Length:	225 mm length
Mounting length:	70.5 mm
Diameter:	42.1 mm
Mounting diameter:	28.0 mm
Process connection:	1" NPT front / rear (others on request)

## Connection

Loose cable ends:	No color	description
	1 red	supply +
	2 black	supply -
	3 green	output O <sub>2</sub> concentration
	4 white	output O <sub>2</sub> saturation

Cable length:	5 m
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Scope of supply:	Transmitter (consisting of sensor body and evaluation, connected via cable), storage cap
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## Option:

Cable length 10 m
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Cable length 15 m
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Cable length 30 m
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## Accessories and spare parts:

## GSKA 200

Art. no. 607992

Metal cap steel (Mechanical protection / browsing protection)

## EMS 200

Art. no. 607990

Spare membrane head-set

## GNG 12/300

Art. no. 600274

Power Supply



## PH-MEASURING TRANSDUCER WITH ON SITE DISPLAY

## HIGHLIGHTS:

- automatically and manually temperatur compensation
- external Pt1000-temperature probe connectable

## WITH ELECTRICALLY ISOLATION



## GPHU 014 MP-BNC

Art. no. 601985

pH-measuring transducer with on site display without electrode, BNC-connection

## GPHU 014 MP-Cinch

Art. no. 601989

pH-measuring transducer with on site display without electrode, Cinch-connection

## Specifications:

Measuring ranges:	0.00 ... 14.00 pH
Accuracy:	0.02 pH ±1 digit (at nominal temperature = 25 °C)
Output signal:	4 ... 20 mA (2-wire), standard; 0 ... 10 V (3-wire), upon upcharge
Electric isolation:	input electrically isolated
Auxiliary energy:	12 ... 30 V DC (for option 0 ... 10 V: 18 ... 30 V DC)
Perm. impedance (at 4 ... 20 mA):	R <sub>A</sub> [Ω] ≤ (U <sub>V</sub> [V] - 12 V) / 0.02 A
Permissible load (at 0 ... 10 Volt):	R <sub>L</sub> > 3000 Ω
Electrode:	any standard pH electrode is suitable (not in scope of supply)
Input resistance:	10 <sup>12</sup> Ohm
Electrode socket:	BNC-socket or Cinch-socket
Temperature compensation:	-30 ... +150 °C, manually via 3 keys or automatically via external Pt1000 sensor, banana plug
Adjustment:	via 3 keys and integrated LCD, 2-point-calibration
Temp. sensor socket:	2 x banana socket Ø 4 mm, for Pt1000 probe
Display:	approx. 10 mm high, 4-digit LCD-display
Working temperature:	0 ... +50 °C (electronic)
Storage temperature:	-20 ... +70 °C
Electric connection:	elbow-type plug acc. to EN 175301-803/A (IP65)
Housing:	ABS (IP65), with the exception of electrode and temperature connection sockets. (cpl. IP65 upon request)
Dimensions:	82 x 80 x 55 mm (H x W x D)
Mounting:	with fixing holes for wall mounting (accessible after removal of cover), Mounting distance: 70 x 50 mm (W x H), Fixing screws: max. shaft-Ø 4 mm
Option:	
V2:	Output signal 0 ... 10V
MB...:	limited measuring range (please state the desired range) (i.e.: 2.00 ... 10.00 pH)
Accessories and spare parts:	
GTF 2000-B-WD	
Art. no. 601884	
Water proof Pt1000-temperature probe, with 2 banana plugs Ø 4 mm	
GE 100-BNC	
Art. no. 600704	
Standard electrode, BNC-plug (thread adapter PG 13.5 optional available)	
GE 100-Cinch	
Art. no. 600702	
Standard electrode, Cinch-plug (thread adapter PG 13.5 optional available)	
GE 117-BNC	
Art. no. 600730	
pH electrode with integrated Pt1000-sensor, 1 x BNC-plug and 1 x banana plug Ø 4 mm, thread PG13.5, pressure resistant up to 6 bar	
GE 173-BNC	
Art. no. 600735	
Process electrode for continuous operation, with thread PG 13.5, pressure resistant up to 6 bar, BNC-plug	
GE 173-Cinch	
Art. no. 600734	
Process electrode for continuous operation, with thread PG 13.5, pressure resistant up to 6 bar, Cinch-plug	
GAK 1400	
Art. no. 603523	
working and calibration set (p.r.t. page 62)	
DFG70	
Art. no. 611372	
Flow-thru vessel (p.r.t. page 187)	
For add. electrodes and accessories p.r.t. p. 65 / 66, Pt1000 probes p.r.t. page 21 - 23 and from 207.	

