

## OPTICAL OXYGEN CONVERTER FOR DISSOLVED OXYGEN



**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

LOW MAINTENANCE & ROBUST

### 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)**

<b>Oxygen concentration:</b>	0 ... 20 mg/l (=ppm)
<b>Oxygen saturation:</b>	0 ... 200 % O <sub>2</sub>
<b>Output signal:</b>	4 ... 20 mA or 0 ... 5 V respectively (changeable)
<b>Accuracy:</b>	±0.1 mg/l less than 1 mg/l, ±0.2 mg/l more than 1 mg/l
<b>Response time T<sub>90</sub>:</b>	<30 s
<b>Operating temperature:</b>	0 ... 65 °C
<b>Supply:</b>	5 ... 15 V DC, approx. 160 mA

**Material**

<b>Housing:</b>	PVC / stainless steel, option „marine“: PVC
<b>Membrane:</b>	PET

**Dimensions sensor**

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

**Connection**

<b>Loose cable ends:</b>	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

<b>Cable length:</b>	5 m
<b>Scope of supply:</b>	Transmitter (consisting of sensor body and evaluation, connected via cable), storage cap

**Option:**

- Cable length 10 m**
- Cable length 15 m**
- Cable length 30 m**

**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

**Specifications:**

<b>Measuring range:</b>	0.00 ... 14.00 pH
<b>Accuracy:</b>	0.02 pH ±1 digit (at nominal temperature = 25 °C)
<b>Output signal:</b>	4 ... 20 mA (2-wire), standard; 0 ... 10 V (3-wire), upon upcharge
<b>Electric isolation:</b>	input electrically isolated
<b>Auxiliary energy:</b>	12 ... 30 V DC (for option 0 ... 10 V: 18 ... 30 V DC)
<b>Perm. impedance (at 4 ... 20 mA):</b>	R <sub>A</sub> [Ω] ≤ (U <sub>v</sub> [V] - 12 V) / 0.02 A
<b>Permissible load (at 0 ... 10 Volt):</b>	R <sub>L</sub> >3000 Ω
<b>Electrode:</b>	any standard pH electrode is suitable (not in scope of supply)
<b>Input resistance:</b>	10 <sup>12</sup> Ohm
<b>Electrode socket:</b>	BNC-socket
<b>Temperature compensation:</b>	-30 ... +150 °C, manually via keys or automatically via external Pt1000 sensor, banana plug
<b>Adjustment:</b>	via 3 keys and integrated LCD, 2-point-calibration
<b>Temp. sensor socket:</b>	2 x banana socket Ø 4 mm, for Pt1000 probe
<b>Display:</b>	approx. 10 mm high, 4-digit LCD-display
<b>Working temperature:</b>	0 ... +50 °C (electronic)
<b>Storage temperature:</b>	-20 ... +70 °C
<b>Electric connection:</b>	elbow-type plug acc. to EN 175301-803/A (IP65)
<b>Housing:</b>	ABS (IP65) with the exception of electrode and temperature connection sockets. (cpl. IP65 upon request)
<b>Dimensions:</b>	82 x 80 x 55 mm (H x W x D)
<b>Mounting:</b>	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 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 126-BNC**  
Art. no. 610987  
pH electrode, low-maintenance, BNC plug
- GE 173-BNC**  
Art. no. 600735  
Process electrode for continuous operation, with thread PG 13.5, pressure resistant up to 6 bar, BNC-plug
- GAK 1400**  
Art. no. 603523  
working and calibration set
- HD-9609**  
Art. no. 700046  
pH- und mV-Simulator, (see product catalogue)
- DFG70**  
Art. no. 104095  
Flow-thru vessel (p.r.t. page 63)

For add. electrodes, probes and accessories see product catalogue, Pt1000 probes p.r.t. page 69