



## Optical dissolved oxygen sensors with DX Interface



DX 530

- Innovative optical principle: luminescence quenching
- Nearly maintenance free
- Long life construction
- Precise without minimum flow necessary
- Fully digital DX interface
- Maximum comfort and reliability
- No chemicals

### DESCRIPTION

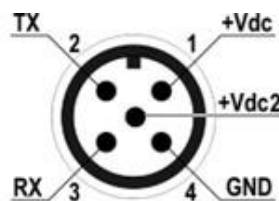
The DX 530 sensor is the first of 3 variations of state-of-the-art dissolved oxygen sensors. The optical measuring principle eliminates the need of chemical substances and frequent maintenance as well as the necessity of minimum flow at measuring membrane.

With the fully digital DX interface it can be paired to any meter of the wide range of the SENSECA PRO-line, in combination with the PRO D01/ D05 up to 3 sensors can be connected and evaluated in parallel. With the PRO 595 multi-parameter device, pH or ORP measurements can also be paired in parallel via a BNC connection.

#### DX 530: Digital optical dissolved oxygen sensor, economic field style

The best choice for field measuring in sweet water aquafarming, river monitoring, well water analysis and wastewater monitoring- combined with e.g. PRO D01 a very competitive and reliable measuring tool.

Equipped with 5-pin M12 connector:



## TECHNICAL SPECIFICATIONS

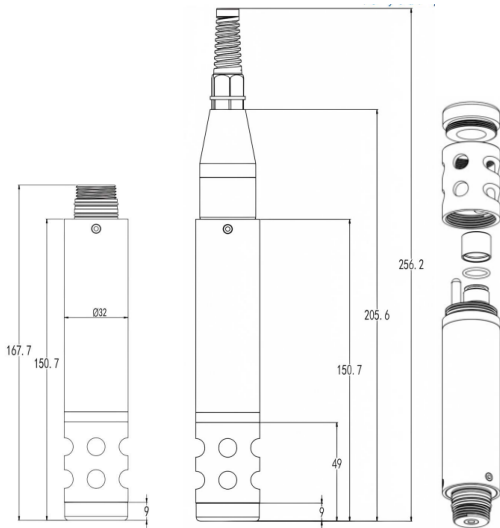
General characteristics	
	<b>DX 530 economic field probe</b>
Output	DX interface
Connection	Jack socket for detachable cable / M12 DX sensor connection
Dimensions	256 mm, incl. connector and bending protection, Ø32 mm
Weight	~330 g incl. 3 m cable ~405 g incl. 5 m cable
Material	PVC housing, SS1316 membrane cap
Cable	Standard incl. connection cable PUR 3 or 5 m

### Measurement specifications

Measuring ranges	
Oxygen saturation	0.0 ... 200.0 % O <sub>2</sub> sat
Oxygen concentration	0.00 ... 20.00 mg/l (ppm)
Temperature	0.0 ... 45.0 °C
Pressure	-
Resolution	10 ppb, 0.01 mg/l 0.1 % O <sub>2</sub> sat -
Compensation	
Temperature	Fully automatic
Salinity	Autom. with user-input (2 ... 42 ppt)
Accuracy	
Oxygen	0 ... 100%: < ± 0.3mg/l 100 ... 200%: < ± 3%
Temperature	± 0.2 °C
Pressure	-
Max immersion depth	10 m (max 3h per day, dry afterwards recommended)
Response Time T <sub>90</sub> , rising values *)	T <sub>90</sub> : 30 s
Adjustment	1-point (100%) in air-saturated water or water-saturated air 2-point: (Zero and 100%)
Sensor cap life:	min 1.5 years with optimum treatment, user replaceable
Membrane protection	Included
Recommended interval adjustment/calibration	6 months (depending on precision requirement and treatment)

\*) falling values, especially to very low values, may take significantly longer

Operating conditions	0 ... 45 °C
Atmospheric Pressure	
Max abs. pressure	2000 hPa
Storage temperature	-10 ... +50 °C
Protection degree	IP68
Power consumption	~30 mA



Drawing DX530

## ORDERING CODES

- DX-530-L03** Digital optical dissolved oxygen sensor, economic field style, detachable cable 3 m.  
Device in carton box, incl. Quickstart **Art no. 488878**
- DX-530-L05** Digital optical dissolved oxygen sensor, economic field style, detachable cable 5 m.  
Device in carton box, incl. Quickstart **Art no. 488968**

## SUITABLE INSTRUMENTS

- PRO D01** 1-channel handheld meter for digital probes. Supplied with 4 x AA alkaline batteries  
**Art no. 486134**
- PRO D05.2** 2-channel handheld data logger for digital probes. Supplied with 4 NiMH rechargeable batteries, USB cable and software downloadable from Senseca website.  
**Art no. 486136**
- PRO D05.3** 3-channel handheld data logger for digital probes. Supplied with 4 NiMH rechargeable batteries, USB cable and software downloadable from Senseca website.  
**Art no. 486137**
- PRO 595** Portable multiparameter water analysis meter and data logger. Supplied with 4 x AA NiMH rechargeable batteries, USB cable and software ProXware downloadable from Senseca website, without sensors  
**Art.no. 488748**

All PRO-Line measuring devices with DX measuring input can be used

## ACCESSORIES

### Replacement Parts

REP_CABLE_DX53-L03	Spare cable with electronic for DX 53x oxygen sensors, 3 m	<b>Art no. 489910</b>
REP_CABLE_DX53-L05	Spare cable with electronic for DX 53x oxygen sensors, 5 m	<b>Art no. 489911</b>
REP_CAP_DX-530	Spare membrane head for DX 530, in carton box	<b>Art no. 489147</b>

### Additional Accessories

#### CASE PRO-400



Case for PRO Line.

Recess for one instrument, space for accessories, carrying handle, zipper.

Dimensions: 415 x 245 x 70 mm (W x H x D).

**Art. No. 486900**



**NIEUWKOOP**