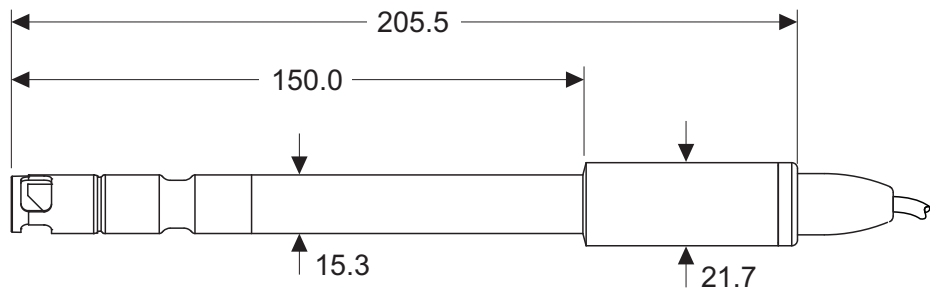


## 5 Technical data

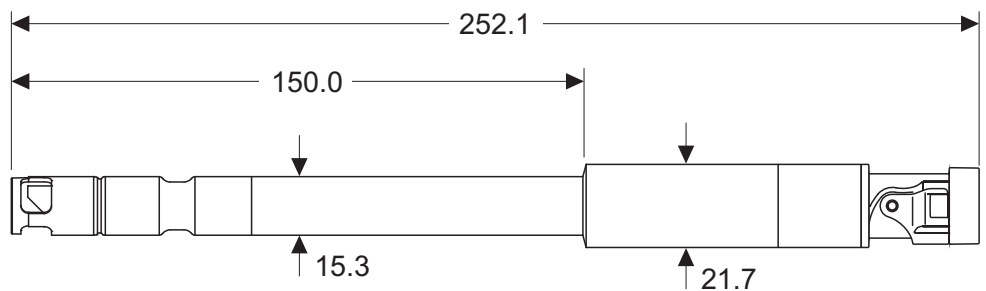
<b>General features</b>	Measuring principle	Optical measurement based on photoluminescence.
	Temperature sensor	Integrated NTC 30 (30 kΩ at 25 °C / 77 °F)

### Dimensions (in mm)

#### FDO® 925:



#### FDO® 925-P:



<b>Weights</b>	FDO® 925	180 g (with 3 m cable)
	FDO® 925-P	107 g
	FDO® Check	58 g
<b>Materials</b>	Shaft	POM
	Connection head	POM
	Sensor cap	PVC, silicone and PMMA
	Sensor head	POM, PV and PMMA
	Sensor head - sensor cap contacts	Brass, gold-plated
	Thermistor housing	VA steel 1.4571
	Protective hood	VA steel 1.4571
	Seals	FPM (Viton)

<b>Connection cable</b> (FDO® 925)	Lengths	1.5 or 3 m
	Diameter	4.3 mm
	Smallest allowed bend radius	Fixed installation: 20 mm Flexible use: 60 mm
	Plug type	Socket, 4 pins
<b>IDS plug</b> (FDO® 925-P)	Connection type	4-pole, watertight plug connection with lock, reverse polarity protected
	Materials	<ul style="list-style-type: none"> <li>● Synthetic materials: Glass fiber reinforced Noryl, TPU, TPC-ET, POM, PEEK, PBT</li> <li>● O-ring: FPM</li> <li>● Contacts gold-plated</li> </ul>
<b>Pressure resistance</b>	Sensor with connection cable	IP 68 (1 x 10 <sup>6</sup> Pa or 10 bar)
	Cable plug (FDO® 925)	IP 67 (when plugged in)
The FDO® 925 meets the requirements according to article 3(3) of the 97/23/EC directive ("Pressure equipment directive").		
<b>Measurement conditions</b>	Measuring ranges at 20 °C (68 °F)	0 ... 20 mg/l D.O. 0 ... 200 % D.O. saturation 0 ... 400 mbar D.O. partial pressure
	Temperature range	0 ... 50 °C (32 ... 122 °F)
	Max. admissible overpressure	1 x 10 <sup>6</sup> Pa (10 bar)
	Immersion depth	min. 6 cm max. 100 m (depending on the cable length)
	Operating position	any
	Approach flow	not required
	<b>Storage conditions</b>	Recommended storing method
Storage temperature		0 ... 50 °C (32 ... 122 °F)

<b>Characteristic data on delivery</b>	Accuracy of D.O. measurement at 20 °C (68 °F) in air-saturated water	± 1.5 %
	Zero signal	≤ 0.02 mg/l O <sub>2</sub> ≤ 0.2 % O <sub>2</sub> saturation ≤ 0.4 mbar O <sub>2</sub> partial pressure
	Response time at 20 °C (68 °F) in stirred solution	t <sub>90</sub> (90 % of the final value display after) < 30 s t <sub>95</sub> (95 % of the final value display after) < 45 s t <sub>99</sub> (99 % of the final value display after) < 60 s
	Response time of temperature measurement	t <sub>99</sub> (99 % of the final value display after) < 60 s
	Precision of temperature measurement	± 0.2 K
	Working life of the sensor cap	Min. 1 year with authorized use

## 6 Wear parts and accessories

Wear parts and maintenance equipment	Description	Model	Order no.
	Replacement sensor cap	SC-FDO® 925	201 310
	Replacement protective hood	ADA FDO®/RZ	201 312

General accessories	Description	Model	Order no.
	Calibration and storage vessel	FDO® Check	201 311
	Magnetic stirrer	Oxi-Stirrer 300	203 810
	Stirring accessory - provides a constant, defined flow to the sensor, in conjunction with the Oxi-Stirrer 300. The stirring accessory is put on the protective hood.	RZ 300	203 824
	Funnel set - for BOD measurements in Winkler bottles	TS 19	205 710
	Karlsruhe bottle - suitable for BOD measurement	KF 12	205 700
	Fixing ring, recommended for measurements in Karlsruhe bottles	FR 19	205 712
	Flow-through accessory - for pressure-free D.O. measurement with flow-through quantities from 25 to 65 ml/min.	D 201	203 730

Accessories for FDO® 925-P (IDS plug variant)	Description	Model	Order no.
	IDS connection cable, 1.5 m	AS/IDS-1.5	903 850
	IDS connection cable, 3 m	AS/IDS-3	903 851
	IDS connection cable, 6 m	AS/IDS-6	903 852
	IDS connection cable, 10 m	AS/IDS-10	903 853
	IDS connection cable, 15 m	AS/IDS-15	903 854
	IDS connection cable, 20 m	AS/IDS-20	903 855
	IDS connection cable, 25 m	AS/IDS-25	903 856
	IDS connection cable, 40 m	AS/IDS-40	903 857
	IDS connection cable, 60 m	AS/IDS-60	903 858
	IDS connection cable, 100 m	AS/IDS-100	903 859
	Blind plug for IDS plug	BPO/IDS 900	908 371



Further accessories are listed in the price list of the WTW catalog "Laboratory and field instrumentation".