

4220(W)

ORP ELECTRODE

Item: 103749Y



a xylem brand

Technical data

Measurement and application characteristics	mV measuring range	- 1250.0 ... + 1250.0
	Allowed temperature range	● 4210W / 4211: 0 ... 100 °C ● 4220W: 0 ... 60 °C
	Typical application	● 4210W / 4211: Laboratory ● Field4220W: Field / Depth measurement
Accuracy of the IDS measuring technique	Measured parameter	Accuracy (± 1 digit)
	U [mV]	± 0.2
	T [°C]	± 0.1
General data	Reference electrolyte	● 4210W / 4211: 3 mol/l KCl, Ag+-free ● 4220W: Polymer
	Junction	● 4210W / 4211: Ceramic ● 4220W: Hole (2 x)
	Double junction	4210W / 4211
	Electrode material and shape	● 4210W / 4211: Platinum / circle ● 4220W: Platinum ring
	Shunt conduction element	Ag/AgCl
	Temperature sensor	Integrated NTC 30 (30 kΩ at 25 °C / 77 °F)
	Response time t_{99} of the temperature sensor	● 4210W / 4211: < 30 s ● 4220W: < 130 s
	Allowed pH range of the measuring medium	● 4210W / 4211: 0 ... 14 ● 4220W: 4 ... 12
Connection cable	Lengths	● 4211: 1.5 m ● 42xxW: see section 7 WEAR PARTS AND ACCESSORIES
	Diameter	4.3 mm
	Smallest allowed bend radius	Fixed installation: 20 mm Flexible use: 60 mm
	Plug type	Socket, 4 Wpoles

Shaft dimensions, material	Shaft length	120 mm
	Shaft diameter	12 mm
	Shaft material	● 4210W / 4211: Glass ● 4220W: Glass

IDS plug	Connection type	4W-pin, watertight plug connection with locking device, reverse polarity protected
	Material	● Plastic parts: Glass fiber reinforced Noryl, TPU, TPC-ET, POM, PVC, PEEK, PBT ● O-ring: FPM ● Contacts gold-plated

Storage With watering cap; filled with KCl 3 mol/L, Ag⁺ free

**Pressure range at
temperature
4220W**

<u>Temperature</u>	<u>Allowed overpressure</u>
0 °C (32 °F)	1000 kPa (10 bar)
20 °C (68 °F)	1000 kPa (10 bar)
30 °C (86 °F)	500 kPa (5 bar)
40 °C (104 °F)	300 kPa (3 bar)
60 °C (140 °F)	100 kPa (1 bar)

The electrodes meet the requirements according to article 3(3) of the directive 97/23/EC ("pressure equipment directive").
