

TORP

80S6000X0



The TORP sensor for measuring the redox potential from the eCHEM sensor product range is an electrochemical sensor for measuring in aqueous solutions. This digital sensor is an immersion sensor that is used under water

or in conjunction with flow-through cells. It measures the redox potential at a gold electrode against an AG|AgCl|-Cl reference electrode.

Benefits



- ◆ Communication of measurements via digital Modbus RTU protocol
- ◆ Low maintenance effort
- ◆ Plug and play with TriBox controller

Applications



- ◆ Water and waste water treatment
- ◆ Coagulation and flocculation
- ◆ Process monitoring and control
- ◆ Acid/base neutralisation systems

Parameter



Technical specification



Application	Long-term monitoring and limit value control of processes; water treatment
Measuring technology	Redox electrode
Measuring principle	Potentiometry
Parameter	Oxidation reduction potential
According to	DIN EN ISO 27888:1993
Measuring range	± 1000 mV
Resolution	0,01 mV
Calibration	It is not necessary to calibrate the sensor. It is sufficient to carry out a validation with a standard solution. (e.g. 600 mV).
Smallest measuring interval	≥ 2 sec
Temperature compensation	No
Turbidity compensation	No
Data logger	No
Interface	digital: RS-485, Modbus RTU
	analogue: -
Power supply	12–24 VDC (± 10 %)
Optical display	Status LED
Connection	8-pin M12 plug
Sensor cable	0,5 m, 2 m and 10 m
Housing material	PPS, PET, NBR
Dimensions (L x Ø)	~180 mm x 27 mm
Weight	110 g
Operating conditions	Temperature: 0° C ... +100 °C
	Fixed cable: 3 bar
	Flow cell: 1 bar at 2 ... 4L/min
Protection class	IP68
Maintenance effort	< 0,5h/month typical
System compatibility	TriBox3, TriBox mini, Modbus RTU
Warranty	1 year (EU & USA 2 years) on electronics; wearing parts are excluded from the warranty
Accessories (optional)	Cable: Extension cable 2m, 10m
	Controller: TriBox3, TriBox mini
	Fittings: FC eCHEM FlowCell