



TORP

80S6000X0



TORP is an electrochemical sensor for measuring the redox potential in aqueous solutions from the TriOS eCHEM sensor product range. This digital sensor is a submersible 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.

Advantages

- 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 neutralization systems

Technical specifications

Application	Long-term monitoring and limit value control of processes; water treatment
Measurement technology	Redox electrode
Measuring principle	potentiometry
Parameters	Oxidation-reduction potential
Applied standard	DIN EN ISO 27888:1993
Measuring range	± 1000 mV
Resolution	0.01 mV
Calibration	Calibration of the sensor is not necessary. It is sufficient to carry out a validation with a standard solution (e.g. 460-480 mV).
Smallest measuring interval	≥ 2 sec

Temperature compensation	No
Turbidity compensation	No
Data logger	No

Interface	digital:	RS-485, Modbus RTU
	analog:	-
Power supply	12-24 VDC ($\pm 10\%$)	
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	~ 7.1 " x 1.06 "
Weight	110 g	0.243 lbs

Operating conditions	Temperature:	0° C...+100 °C	32...212 °F
	Fixed cable:	3 bar	43.5 psi
	Flow unit:	1 bar at 2...4 L/min	14.5 psi at 2...4 L/min
Protection class	IP68		NEMA 6P

Maintenance effort	< 0.5 h/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)	Cables:	Extension cable 2 m, 10 m
	Controller:	TriBox3, TriBox mini
	Fittings:	FC eCHEM flow cell