

# pH/ORP Sensors

A robust range of pH and ORP combination electrodes available with and without Memosens digital connectivity for industrial and processing applications.

## Benefits

- Patented KNO<sub>3</sub> electrolyte bridge resists electrode poisoning from ions such as S<sup>2-</sup> or CN<sup>-</sup>
- Available flat pH membrane resists wear in abrasive applications
- Top and bottom 3/4" NPT threaded connection allows for insertion and dip type installations
- Memosens pH sensors include integrated temperature sensor
- Robust probe guard protects against damage from process borne solids etc.
- Full range of installation fittings and accessories available
- Memosens data saved in the sensor for plug and play connectivity

## Applications

### Mining Operations

- Flotation
- Leaching
- Process Water

### Industrial Wastewater Treatment

- Coagulation Optimization
- Neutralization
- Wastewater Outlet Monitoring

### Pulp and Paper

- Wastewater Monitoring



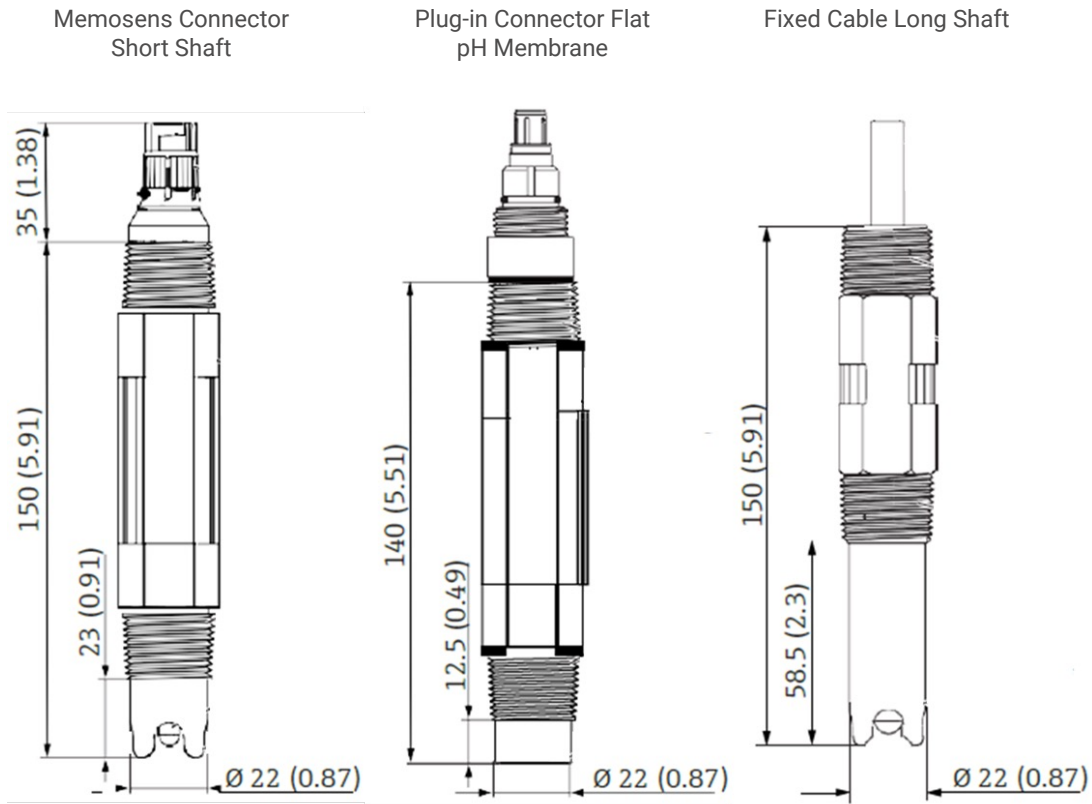
## General Specifications

Parameter		pH		ORP	
Model		OCPF81D	OCPF81	OCPF82D	OCPF82
Process Connection		3/4" NPT male thread			
Measured Values	Version LH	0 to 14 pH		-	
	Version NN	0 to 11pH*		-	
	Version PA/PE	-		-1500 to +1500 mV	
		Included	Optional		
Process Temp. Range	Version LH	0 to 110°C	32 to 230°F	-	-
	Version NN	0 to 80°C	32 to 176°F	-	-
	Version PA/PE	-	-	0 to 80°C	32 to 176°F
Process Pressure Range**		1 to 10 bara / 14.5 to 145 psia (80°C / 176°F) 1 to 3.5 bara / 14.5 to 50.8 psia (110°C / 230°F)			
pH Impedance		150 MΩ at 25°C / 77°F		-	
Ambient Temperature		Risk of freezing below 0°C / 32°F			
Storage Temperature		0 to 50°C / 32 to 122°F			
Ingress Protection	Memosens	IP68	-	IP68	-
	Plug-in Head	-	IP68	-	IP68
	Fixed Cable	-	IP67	-	IP67
Insertion length	Short Shaft	23mm / 0.91"			
	Long Shaft	58.5mm / 2.3"			
	Flat Membrane	12.5mm / 0.49"		-	
Process Contact Materials	Housing	PPS (Polyphenylene sulfide)			
	pH Sensor	Lead-free glass		-	
	ORP Sensor	-		Platinum/Glass	
	Reference Sys.	KNO <sub>3</sub> and KCl/AgCl			
Cable Length***		-	Std: 15', 30'	-	Std: 15', 30'

\* 11 to 14 pH with reduced accuracy

\*\* Process pressure range derates from 10 bara to 3.5 bara / 145 to 50.8 psia between 80°C / 176°F and 110°C / 230°F

\*\*\* Memosens and plug-in cables sold separately. Custom fixed lengths and extension cables available



(Dimensions: mm (in))

## Related Equipment and Accessories

- OCM44 Memosens pH Transmitter
- Memosens Cables
- OPM223/253 Analog Transmitters
- pH Cables/Extension Cables
- Dip Holder Assemblies
- In Line Flow Tees
- Calibration Buffers

**Contact us for details**