

DIGITAL DIFFERENTIAL PH AND ORP ELECTRODES



General features

S401DIFF and **S406DIFF** are differential electrodes designed for pH and ORP measurement in heavy duty applications, where the electrodes with traditional reference system would have a life too short.

They consist of a PVC body which houses the glass electrode for pH or ORP measurement, the reference electrode with a salt bridge and a KCL reserve which guarantees a high stability of the reference signal in time and at operating conditions variations. The measuring and reference electrodes are connected to an earth contact for an excellent measurement accuracy even in extreme conditions.

The reference electrode is replaceable.

Applications

Input, output and biological treatment of waste water. Industrial heavy duty applications.

Technical specifications

Models	S401DIFF	S406DIFF
Measuring range	0 ÷ 14 pH	-1500mV + 1500 mV
Measuring method	potentiostatic differential	
Sensitivity	0.05 pH	+ - 1 mV
Repeatability	98 %	
Response time	5 sec. to reach 90% of the value	
Operating temperature	-5 ÷ 95°C in insertion/by-pass ; -5 ÷ 50°C in immersion	
Maximum pressure	6.9 Bar	
Body material	Ryton® and PVC	
Measuring electrode	hemispherical glass membrane	
Other materials	Teflon®, carbon, epoxy	
Mechanical protection	IP68 Sensor + cable	
Power supply	12 ÷ 24Vdc	
Power consumption	max. 2W	
Cable	10m integral with the sensor (other on request)	
Equipotential contact	included	
Signal interface	Modbus RTU Standard Protocol	