

### Description

The WQ450 ORP sensor is rugged and compact instrument suited for measuring redox in surface and underground waters.

Redox or ORP (Oxidation Reduction Potential) is a measure of the oxidation activity of the water. ORP is also used as an alternative way to measure chlorine concentration, since water high in chlorine (a strong oxidizer) has a high ORP.

The WQ450 ORP sensor consists of a platinum wire and a reference electrode. The mA output signal is directly proportional to the ORP. Since the output of the instrument is electrical, the signal can be read with a manual read out unit like the DATAVIEW, automatically, with a data logger such as the MINILOG, MYLOG, NATUN system or any other data logger provided by SIM STRUMENTI. Every sensor is provided with a calibration certificate that attests the results of the test performed and all electromechanical features.

### Applications

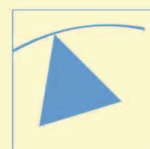
ORP measurement in wells, tanks, flumes, streams etc.

**Fully encapsulated electronics**

**Stainless steel housing**

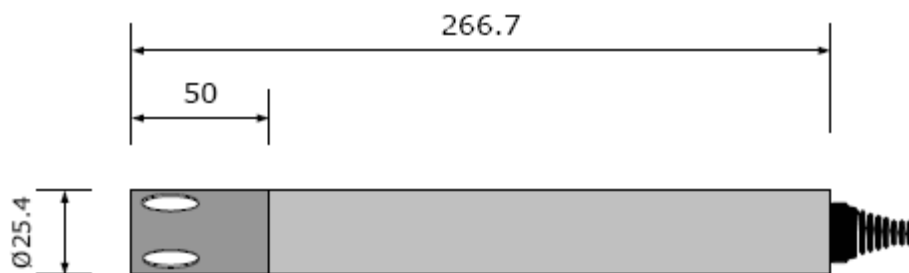
**Temperature sensor  
(optional)**

**4-20mA Output**



**SIN**

Strumenti e sistemi  
per la geotecnica  
per il controllo  
di strutture e la  
salvaguardia  
dell'ambiente



## Technical features

Model	<b>WQ450</b>	
Range	-500 ÷ +500 mV	
Supply	10 ÷ 36 Vcc	
Output	4 ÷ 20 mA	
Linearity	2% FS	
Consumption	0.2 mA + sensor output	
Operating temperature	-40 ÷ + 55 °C	
Warm up	3 sec	
Max Pressure	3 bar	
Dimensions	25 x 267 mm	
Weight	0.227 Kg	
Material	Stainless Steel/PVC	
<b>Temperature Sensor</b>	Add to the PH sensor the cod	
	<b>-CT</b>	<b>-PT</b>
Output	µA/K	PT100 100Ω at 0 °C
Range	-50 ÷ 105°C	-100 ÷ 104°C
Precision	0.3°	0.1°

WQ450\_EN ED01/14



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# SIM

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