



SENSORS &  
CONTROLLERS



ANALYZERS  
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LEVEL, FLOW  
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WEB APP &  
DATALOGGING



ACCESSORIES

# S411/DIG DATASHEET

## DIGITAL CONDUCTIVITY SENSOR



### MAIN FEATURES

- Reliable conductivity measurement using graphite electrodes
- Method of measurement with two conductive electrodes and temperature compensation.
- PVC body sensor and graphite electrodes
- No mechanically moving parts
- Immediate installation and easy maintenance
- modbus RTU serial communication protocol

### APPLICATIONS

The S411/DIG probe is used for the digital measure of conductivity in pure and process waters.

- Measure of conductivity in wastewater
- Measure of conductivity in primary, industrial, recirculating water

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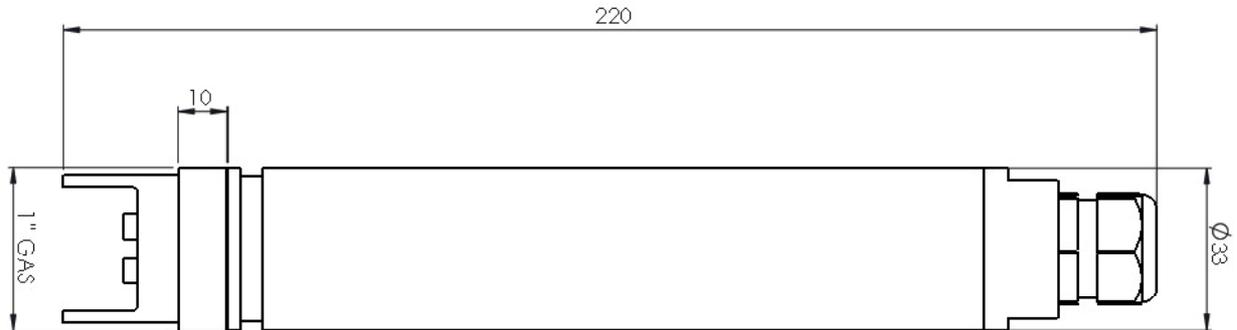
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S411/DIG DATASHEET

## TECHNICAL DATA

Materials	• PVC body • Graphite electrodes
Thread	1" GAS BSP
Measuring ranges	0,00 $\mu$ S to 20000 $\mu$ S
Measuring method	Conductive with two electrodes
Calibration method	Calibration of single point, through the use of a certified conductivity solution.
Resolution	- 0.01 $\mu$ S f.s 20 $\mu$ S - 0.1 $\mu$ S f.s 200 $\mu$ S - 1 $\mu$ S f.s 2000 $\mu$ S - 10 $\mu$ S f.s. 20000 $\mu$ S
Accuracy	- $\pm$ 0.5 $\mu$ S f.s 20 $\mu$ S - $\pm$ 5 $\mu$ S f.s 200 $\mu$ S - $\pm$ 50 $\mu$ S f.s 2000 $\mu$ S - $\pm$ 500 $\mu$ S f.s. 20000 $\mu$ S
Repeatability	- $\pm$ 0.1 $\mu$ S f.s 20 $\mu$ S, - $\pm$ 0.5 $\mu$ S f.s 200 $\mu$ S, - $\pm$ 5 $\mu$ S f.s 2000 $\mu$ S, - $\pm$ 50 $\mu$ S f.s. 20000 $\mu$ S
Response	$T_{90} < 60$ s
Maximum refreshing time	< 1 second
Working temperature	0÷50 °C
Max working pressure	10 bar
Max absorption	2W
Mechanical protection	IP68 Sensor+cable
Cable	10, 30 or 60 or 90m integral
Power supply	12...24Vdc
Signal interface	RS-485 Modbus RTU Protocol
The probe is completely resinated inside	
Compensation of temperature	Via internal NTC, external NTC optional
IP67 Connector	Yes

## DIMENSIONS



## ORDER CODES

9700910097	S411/DIG Digital Conductivity Cell KI for 30m artesian wells
9700911097	S411/DIG Digital Conductivity Cell KI for 60m artesian wells
9700912097	S411/DIG Digital Conductivity Cell KI for 90m artesian wells
9700913097	S411/DIG Digital Conductivity Cell KI with 10m cables
9700914097	S411/DIG Digital Conductivity Cell KI with 10m cable external NTC
9700915097	S411/DIG Digital Conductivity Cell KI 10m cable+conn. external NTC