



SENSORS &
CONTROLLERS



ANALYZERS
& SAMPLERS



LEVEL, FLOW
& PRESSURE



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

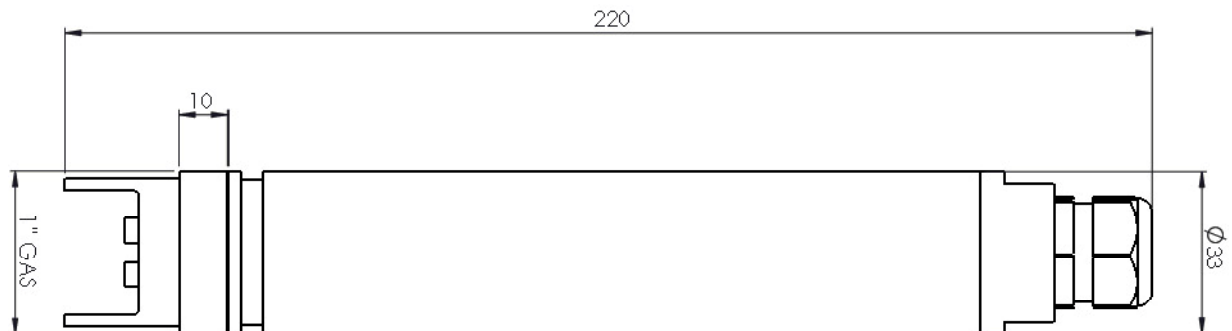
The S411/DIG probe is used for the digital measure of conductivity in pure and process waters.

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

TECHNICAL DATA

Materials	• PVC body • Graphite electrodes
Thread	1" GAS BSP
Measuring ranges	0,00 μ S to 20000 μ S
Measuring method	Conductive with two electrodes
Calibration method	Calibration of single point, through the use of a certified conductivity solution.
Resolution	- 0.01 μ S f.s 20 μ S - 0.1 μ S f.s 200 μ S - 1 μ S f.s 2000 μ S - 10 μ S f.s. 20000 μ S
Accuracy	- \pm 0.5 μ S f.s 20 μ S - \pm 5 μ S f.s 200 μ S - \pm 50 μ S f.s 2000 μ S - \pm 500 μ S f.s. 20000 μ S
Repeatability	- \pm 0.1 μ S f.s 20 μ S, - \pm 0.5 μ S f.s 200 μ S, - \pm 5 μ S f.s 2000 μ S, - \pm 50 μ S f.s. 20000 μ 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 K1 for 30m artesian wells
9700911097	S411/DIG Digital Conductivity Cell K1 for 60m artesian wells
9700912097	S411/DIG Digital Conductivity Cell K1 for 90m artesian wells
9700913097	S411/DIG Digital Conductivity Cell K1 with 10m cables
9700914097	S411/DIG Digital Conductivity Cell K1 with 10m cable external NTC
9700915097	S411/DIG Digital Conductivity Cell K1 10m cable+conn. external NTC