



SENSORS &  
CONTROLLERS



ANALYZERS  
& SAMPLERS



LEVEL, FLOW  
& PRESSURE



WEB APP &  
DATALOGGING



ACCESSORIES

# S411 DIG/N DATASHEET

DIGITAL CONDUCTIVITY ELECTRODE WITH TEMPERATURE



## MAIN FEATURES

- Reliable conductivity measurement thanks to the use of a 4-electrode graphite sensor
- Communication of measurements via MODBUS RTU protocol
- Suitable for many industrial applications
- Easy to connect to the process
- Integrated temperature sensor
- 5 bar operating Pressure
- -5°C to 80°C Operating Temperature
- Method of measurement with four conductive electrodes and temperature compensation.
- PPS and Epoxy body sensor and graphite electrodes
- No mechanically moving parts
- Immediate installation and easy maintenance

## APPLICATIONS

The sensor S411 DIG/N 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

The S411 DIG/N Electrode is suitable for conductivity measures in various applications. It is compatible with firmware starting from 50XX8PW5.

CHEMITEC S.R.L.

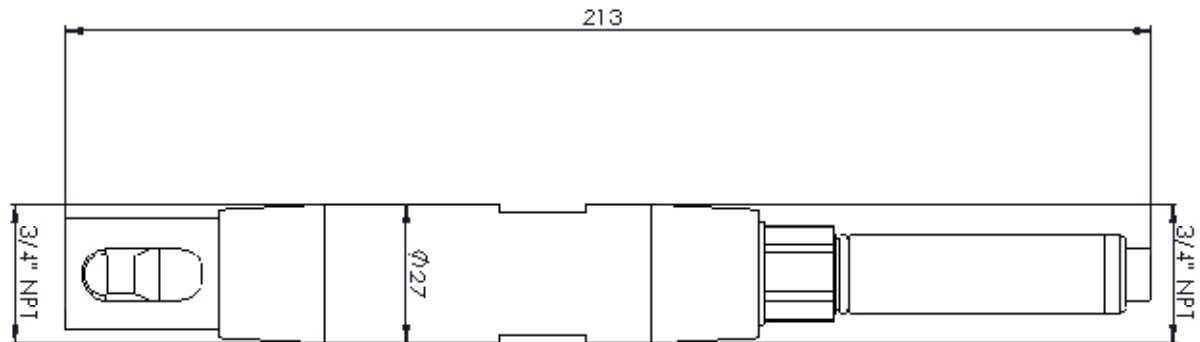
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S411 DIG/N DATASHEET

## TECHNICAL DATA

Materials	• Epoxy electrode and PPS bodies • PPS probeholder • Viton® O-Rings • Electrode Diaphragm: Teflon® • Platinum measuring electrode
Thread	3/4" NPT probeholder, Pg13,5 the electrode alone
Measuring ranges	1 $\mu$ S/cm - 200 mS/cm (K=0,55 nominal)
Measuring method	Conductive with 4 electrodes
Calibration method	1 point or 2 points with certified standard conductive solution
Resolution	1 $\mu$ S/cm
Accuracy	$\leq 4\%$ on the reading point
Repeatability	$\leq 0,2\%$ on the reading point
Response	<5s
Max refresh time	0,1
Temperature resolution	0,1°C
Temperature accuracy	$\pm 0,5^\circ\text{C}$
Temperature response time ( $T_{90}$ )	25s
Operating temperature	$-5^\circ\text{C} \div 80^\circ\text{C}$ in non-frozen water
Max operating pressure	5 bar
Protocol type	Modbus RTU
Cable length	10m integrated with the sensor
Current absorption	<250mW
Power supply	12...24Vdc
Dimensions (LxHxP):	27x213x27mm

## DIMENSIONS



## ORDER CODES

9721010097	S411 DIG/N Digital Conductivity Electrode cable 10m
9721011097	S411 DIG/N Conductivity digital sensor without probeholder 10m cable
7600970000	pH, ORP, conductivity PPS Probeholder