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 manteinance

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

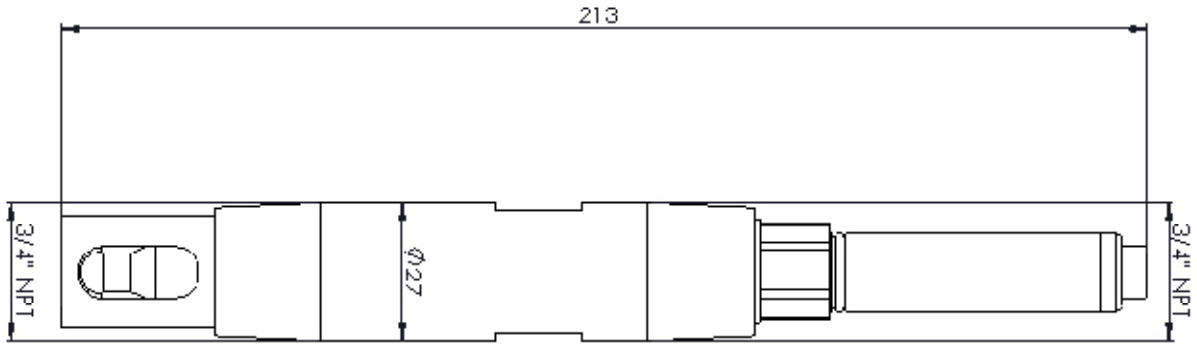
The S411 DIG/N Electrode is suitable for conductivity measures in various applications. It is compatible with firmware starting from 50XX8PW5.

CHEMITEC S.R.L.
VIA I.NEWTON, 30 50018 SCANDICCI (FI)- ITALY
+39 0557576801 • sales@chemitec.it • www.chemitec.it

TECHNICAL DATA

Materials	• Epoxy electrode and PPS bodies • PPS probeholder • Viton® O-Rings • Graphite Electrodes • AISI316 Temperature Sensor
Thread	3/4" NPT probeholder, Pg13,5 the electrode alone
Measuring ranges	1 µS/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 µS/cm
Accuracy	≤4% on the reading point
Repeatability	≤0,2% on the reading point
Response	<5s
Max refresh time	0,1
Temperature resolution	0.1°C
Temperature accuracy	± 0,5°C
Temperature response time (T_{90})	25s
Operating temperature	-5°C÷80°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 cable10m
9721011097	S411 DIG/N Conductivity digital sensor without probeholder 10m cable
7600970000	pH, ORP, conductivity PPS Probeholder

WELKO Av. Providencia 2330, Of. 63
+56 9 3174 3870 / +56 9 3427 0017
ventas@welko.cl - www.welko.cl