

FLS C100-300

STAINLESS STEEL CONDUCTIVITY SENSORS



The FLS conductivity sensors with stainless steel electrodes (C100 series) are designed for agriculture application and for light industrial application obviously where sample conditions allow a steel using (water treatment, foods industry and others). This type of sensors are characterized by a considerable ratio performance/price. They can also be equipped with ATC to improve measurement accuracy. Moreover a wide number of cell constants grants to choose the best item for specific application. C300 serie has been designed for ultrapure water monitoring (cell constant 0,01) and for waste water application (cell constant 10). C300 sensors are completely made in SS ensuring a wide range of applications.

APPLICATIONS

- Agriculture and fertilizing system
- Water treatment
- Foods industry
- Aquaculture
- Ultrapure water application: production and use

MAIN FEATURES

- Stainless steel measuring surfaces
- Considerable ratio performance/price
- Available with or without ATC
- Wide range of cell constant
- Rugged sensor body in PP (C100)
- Sensor in SS completely (C300)



TECHNICAL DATA

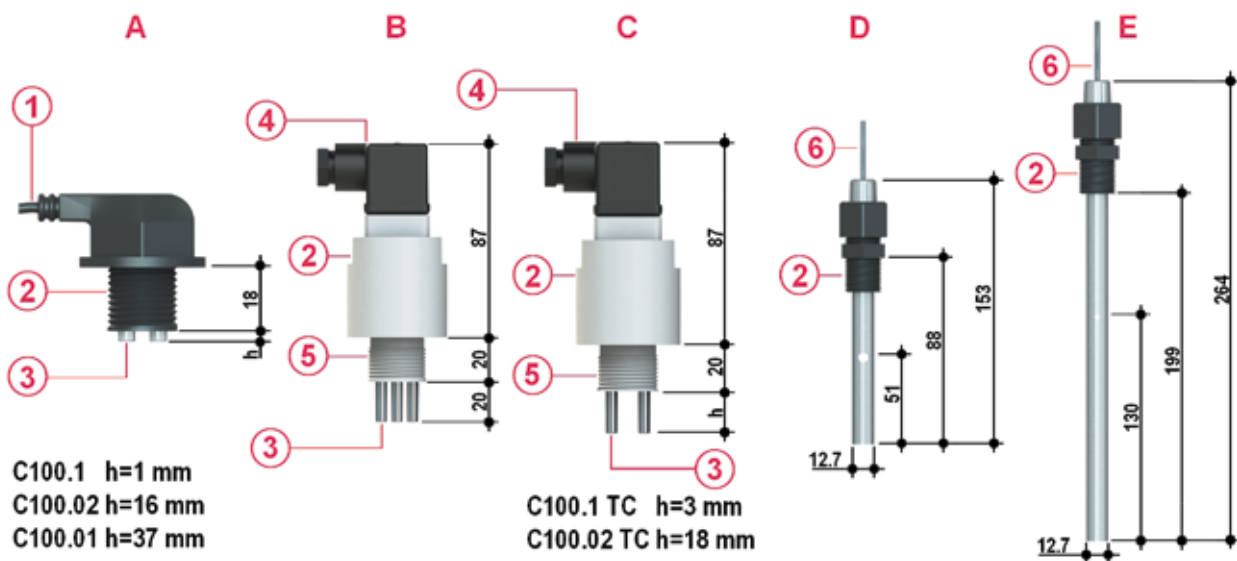
General

- Operating range:
 - C300.001 TC: 0,055 μ S to 200 μ S (18,2 M Ω to 5 K Ω)
 - C100.01, C100.01 TC: 0.1 μ S to 2000 μ S (10 M Ω to 500 Ω)
 - C100.02, C100.02 TC: 0.2 μ S to 4000 μ S
 - C100.1, C100.1 TC: 1 μ S to 20000 μ S
 - C300.10 TC: 10 μ S to 200000 μ S
- Temperature compensation device (for TC models):
 - Pt 100 (C100TC), Pt1000 (C300TC)
- Cable length:
 - C100.01, C100.02, C100.1: 5m bipolar cable of 5mm section
 - C100.01 TC, C100.02 TC, C100.1 TC: no cable available
 - C300 TC: 3m
- Process connection:
 - C100.01, C100.02, C100.1: 1/2" male BSP
 - C100.01 TC, C100.02 TC, C100.1 TC: 3/4" male BSP
 - C300: 3/4" male BSP fitting
- Max. Working Temperature:
 - C100.01, C100.02, C100.1: 80°C (176°F)
 - C100.01 TC, C100.02 TC, C100.1 TC : 80°C (176°F)
 - C300TC: 80°C (PP fitting), 120°C (SS fitting)
- Max. Working Pressure:
 - C100.01, C100.02, C100.1, C100.01 TC, C100.02 TC, C100.1 TC: 6 bar (85 psi)
 - C300 TC: 7 bar (PP fitting), 13 bar (SS fitting)
- Wetted materials:
 - body: C100.01, C100.02, C100.1, C100.01 TC, C100.02 TC, C100.1 TC: PP; C300 TC: SS 316
 - measuring surface: stainless steel AISI 316

Standards & Approvals

- Manufactured under ISO 9001
- Manufactured under ISO 14001
- CE
- RoHS Compliant
- GOST R

DIMENSIONS



ORDERING DATA

| C100 Stainless Steel Electrodes Conductivity Sensors | | | | | | |
|--|---|----------------------------------|---------------|-------------------|-----------------------------------|-----------------|
| Part No. | Description /Name | Applications/ Operative Range | Cell Constant | Connection | Installation | Weight (gr.) |
| C100.01 | PP body sensor with SS Conductivity Electrode | 0.1 μ S to 2000 μ S | 0,1 | 5 m | 1/2" male BSP (parallel threaded) | 350 |
| C100.01TC | PP body sensor with SS Conductivity Electrode and Temperature Sensor included | 0.1 μ S to 2000 μ S | 0,1 | 4 poles connector | 3/4" male BSP (parallel threaded) | 350 |
| C100.02 | PP body sensor with SS Conductivity Electrode | 0.2 μ S to 4000 μ S | 0,2 | 5 m | 1/2" male BSP (parallel threaded) | 350 |
| C100.02TC | PP body sensor with SS Conductivity Electrode and Temperature Sensor included | 0.2 μ S to 4000 μ S | 0,2 | 4 poles connector | 3/4" male BSP (parallel threaded) | 350 |
| C100.1 | PP body sensor with SS Conductivity Electrode | 1 μ S to 20000 μ S | 1 | 5 m | 1/2" male BSP (parallel threaded) | 350 |
| C100.1TC | PP body sensor with SS Conductivity Electrode and Temperature Sensor included | 1 μ S to 20000 μ S | 1 | 4 poles connector | 3/4" male BSP (parallel threaded) | 350 |

| C300 Stainless Steel Electrodes Conductivity Sensors | | | | | | |
|--|---|----------------------------------|---------------|------------|-----------------------------|-----------------|
| Part No. | Description /Name | Applications/ Operative Range | Cell Constant | Connection | Installation | Weight (gr.) |
| C300.001TC | Body sensor and conductivity electrodes in SS | 0,055 μ S to 200 μ S | 0,01 | 3 m | EG50P, EG75P, EG12 SS | 150 |
| C300.10TC | Body sensor and conductivity electrodes in SS | 10 μ S to 200000 μ S | 10 | 3 m | EG50P, EG75P, EG12 SS | 150 |