FLS C150-200

GRAPHITE OR PLATINUM CONDUCTIVITY SENSOR

The FLS C150-200 conductivity sensors feature graphite or high resolution platinum ring technology. Durable epoxy body construction provides rugged and dependable sensors. These sensors provide accurate and high resolution measurement thanks to the included temperature sensor (Pt100) combined with the ATC (Automatic Temperature Compensation) function of the monitor/transmitter. They can be used for both laboratory and industrial applications. Sensor electrodes are well protected so cell constant can't be easily damaged by solids presence. Three cell constants are available depending on the operating range required. A simple and reusable gland can be used for economic electrode in-line mounting while a ½" or ¾" coupler with a pipe extension is enough for submersion mounting. A specific kit allows to mount these probes on FLS T fitting as well as to FLS clamp saddle.

APPLICATIONS

- Chemical concentrations
- Foods industry
- Steam generation
- Metal finishing and mining
- Textile industry
- Pulp and paper
- Water treatment
- Reverse osmosis
- Softener regeneration
- De-ionization
- Distillation
- Aquaculture
- Agriculture and fertilizing systems

MAIN FEATURES

- Graphite or Platinum measuring surfaces
- Suitable for laboratory, industrial or portable applications so long as liquid is filtered
- In line and submersion installation
- Temperature sensor included
- Cell constant choices of 0.1 and 10

TECHNICAL DATA

General

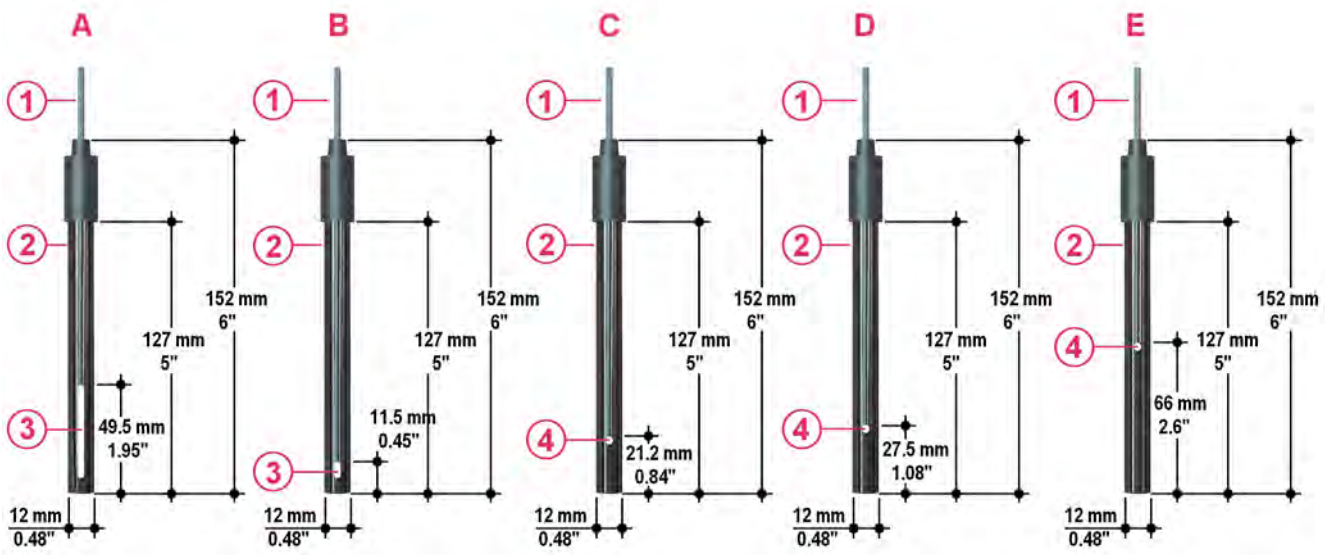
• Operating Range:
- C150.01 TC, C200.01 TC: 0.1 µS/cm to 2000 µS/cm (10 MΩ*cm to 500 Ω*cm)
- C150.1 TC, C200.1 TC: 1 µS/cm to 20000 µS/cm
- C200.10 TC: 10 µS/cm to 200000 µS/cm
• Temp. compensation device (for TC models): Pt100
• Cable length: 5 meter (16 ft.)
• Max. distance electrode-controller (without signal conditioning): 20 meter (66 ft)
• Process Connection:
- in-line installation with:
threaded nipple ½" or ¾"
FLS installation fittings
submersible installation
• Working temperature: 0°C to 70°C (32°F to 158°F)
• Max. Working Pressure: 7 bar (100 psi)
• Wetted materials:
- body: epoxy
- measuring surface: graphite (C150 version) or platinum (C200 version)

Standards & Approvals

• Manufactured under ISO 9001
• Manufactured under ISO 14001
• CE
• RoHS Compliant
• EAC

Optimal Ranges			
cell constant	0,1	1	10
conductivity range	0,5 ÷ 200 µS/cm	0,005 ÷ 10 mS/cm	0,5 ÷ 200 mS/cm
resistivity range	2000 ÷ 5 kΩ*cm	200÷ 0,1 kΩ*cm	2 ÷ 0,005 kΩ*cm

DIMENSIONS



A C150.01 TC
B C150.1 TC
C C200.01 TC
D C200.1 TC
E C.200.10 TC

1 Cable: 5m (16,5 ft.)
2 Epoxy body
3 Graphite electrodes
4 Platinum electrodes

ORDERING DATA

C150 Epoxy body Conductivity Sensors						
Part No.	Description /Name	Applications/ Operative Range	Cell Constant	Connection	Installation	Weight (gr.)
C150.01TC	Graphite Conductivity Sensor with Temperature Sensor included	0.1 µS/cm to 2000 µS/cm (10 MΩ*cm to 500 Ω *cm)	0,1 Cell	5 m (16,5 ft.)	EG50P, EG75P, MIFV20X05, MIMC20X05	200
C150.1TC	Graphite Conductivity Sensor with Temperature Sensor included	1 µS/cm to 20000 µS/cm	1,0 Cell	5 m (16,5 ft.)	EG50P, EG75P, MIFV20X05, MIMC20X05, MK150200	200

C200 Epoxy body Conductivity Sensors						
Part No.	Description /Name	Applications/ Operative Range	Cell Constant	Connection	Installation	Weight (gr.)
C200.01TC	Platinum Conductivity Sensor with Temperature Sensor included	0.1 µS/cm to 2000 µS/cm (10 MΩ*cm to 500 Ω *cm)	0,1 Cell	5 m (16,5 ft.)	EG50P, EG75P, MIFV20X05, MIMC20X05	200
C200.1TC	Platinum Conductivity Sensor with Temperature Sensor included	1 µS/cm to 20000 µS/cm	1,0 Cell	5 m (16,5 ft.)	EG50P, EG75P, MIFV20X05, MIMC20X05	200
C200.10TC	Platinum Conductivity Sensor with Temperature Sensor included	10 µS/cm to 200000 µS/cm	10,0 Cell	5 m (16,5 ft.)	EG50P, EG75P, MIFV20X05, MIMC20X05	200