C150-200

Graphite or platinum conductivity sensor

C150-200

FLS C150-200 conductivity sensors are equipped with graphite or platinum electrodes for high performance. The body, made of epoxy resin, guarantees high resistance and reliability. These sensors ensure accurate and high-resolution measurement thanks to the temperature sensor included (Pt100) combined with the ATC (Automatic Temperature Compensation) function of the monitor/transmitter.
The sensor can be used for laboratory and industrial applications. The sensor electrodes are effectively protected, so the cell constant is unlikely to be modified by the presence of solids. Three cell constants are available, depending on the required operating range. For a cost-effective in-line installation, a simple reusable electrode holder can be used while the coupling with the ½" or ¾" extension allows immersion installation.
With a specific kit, these probes can be mounted on FLS T-adaptors and brackets.

GRAPHITE OR PLATINUM CONDUCTIVITY SENSOR

APPLICATIONS

- Chemical concentrations
- Food industry
- Steam production
- Metal treatments and extractive industry
- Textile industry
- Paper mills
- Water treatment
- Reverse osmosis
- Regeneration of water softeners
- Deionization
- Distillation
- Aquaculture
- Agriculture and fertilizers

MAIN CHARACTERISTICS

- Measuring surfaces in graphite or platinum
- Can be used for laboratory, industrial and field applications, provided the liquid is filtered
- In-line and immersion installation
- Temperature sensor included
- Available cell constants: 0.1; 1; 10

TECHNICAL DATA	
General information	**Operating range:** – C150.01 TC, C200.01 TC: from 0,1 a 2000 µS/cm (da 10 MΩ*cm to 500 Ω*cm) – C150.1 TC, C200.1 TC: from 1 a 20000 µS/cm – C200.10 TC: da 10 to 200000 µS/cm
	Temperature compensation device (for TC models): Pt100
	Cable length: 5 m (16 ft)
	Max distance between electrode and controller (without signal conditioning): 20 m (66 ft.)
	Connection to the process: – In-line installation with: – ½" or ¾" threaded adapter – FLS Installation adapters – Immersion installation
	Operating temperature: from 0°C to 70°C (from 32°F a 158°F)
	Max operating pressure: 7 bar (100 psi)
	Materials in contact with liquids: – Body: epoxy resin – Measuring surface: graphite (model C150) or platinum (model C200)
Standards & Approvals	Manufactured under ISO 9001 Manufactured under ISO 14001 CE EAC

OPTIMAL OPERATING 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

PRODUCT CODES

C150.XX

Epoxy Body Conductivity Sensor with Graphite Electrodes with Temperature Sensor (Pt100) included

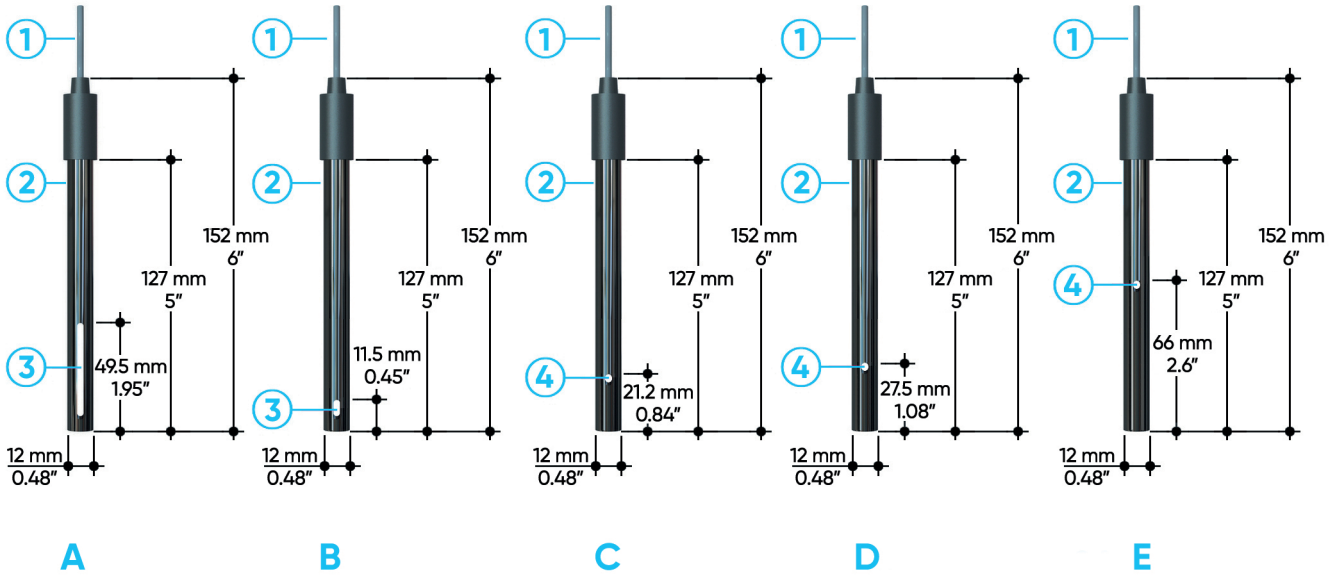
Code	Description	Applications/Flow Rate Range	Cell Constant	Connection	Installation	Weight (gr.)
C150.01TC	Pt100 included	0.1 µS/cm to 2000 µS/cm (10MΩ to 500MΩ cm)	0,1	5 m (16,5 ft.)	EG50P EG75P MIFV20X05 MIMC20X05	200
C150.1TC	Pt100 included	0.1 µS/cm to 2000 µS/cm	1,0	5 m (16,5 ft.)	EG50P EG75P MIFV20X05 MIMC20X05 MK150200	200

C200.XX

Epoxy Body Conductivity Sensor with Platinum Electrodes with Temperature Sensor (Pt100) included

Code	Description	Applications/Flow Rate Range	Cell Constant	Connection	Installation	Weight (gr.)
C200.01TC	Pt100 included	0.1 µS/cm to 2000 µS/cm (10MΩ to 500MΩ cm)	0,1	5 m (16,5 ft.)	EG50P EG75P MIFV20X05 MIMC20X05	200
C200.1TC	Pt100 included	0.1 µS/cm to 20000 µS/cm	1,0	5 m (16,5 ft.)	EG50P EG75P MIFV20X05 MIMC20X05	200
C200.10TC	Pt100 included	0.1 µS/cm to 200000 µS/cm	10	5 m (16,5 ft.)	EG50P EG75P MIFV20X05 MIMC20X05	200

TECHNICAL DRAWINGS



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