

Model OLS50 Conductivity Sensor



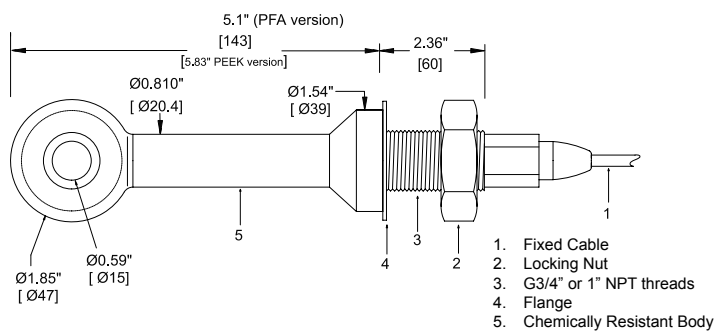
For use in process applications including concentration of acids and alkalis, product quality monitoring, plant effluent monitoring and chemical products in tanks and pipelines

Inductive conductivity sensor for medium to high conductivity measurements from 0 to 2000 mS/cm

- Electrodeless design provides error-free measurement in viscous and aggressive media where contacting sensors can fail
- Inductive sensor opening is not affected by blockage or clogging of up to 40 %
- Sensor body available molded in PFA for high chemical resistance or PEEK for temperatures up to 180 °C (356 °F)
- Pt100 RTD temperature element
- Wide variety of industrial mounting options:
 - 1"MNPT
 - ANSI Flange
 - DIN Flange
 - JIS Flange
- Certified for use in hazardous areas - ATEX, FM, CSA and TIIS
- Each electrode is factory serialized and performance tested

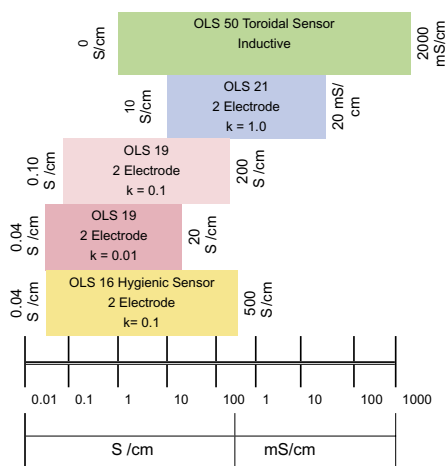
Specifications

Measuring range	0 - 2000 mS/cm
Cell constant	Approximately 2 cm ⁻¹
Meas. value accuracy for -20 to 100°C	±(5 µS/cm + 0.5 %) of measured value
Meas. value accuracy for >100°C	±(10 µS/cm + 0.5 %) of measured value
Temperature sensor	Pt 100 RTD
Temperature response t ₉₀	Time to 90 % of upper temperature display limit
- PEEK version	Approx. 7 min
- PFA version	Approx. 26 min
Minimum installed pipe diameter	≥ 3" (DN80)
Operating temperature range	-20 to 180 °C (-4 to 356 °F)
Hazardous area rated	• ATEX II 1G EEx ia IIC T6/4 • FM IS (NI) Cl.1, Div1&2, Gr.A,B,C,D • CSA IS (NI) Cl.1, Div1&2, Gr.A,B,C,D • TIIS EEx ia IIC T6/4



Dimensions

Conductivity Sensor Selection Chart



Sensor Selection Chart

OLS50-		(select from below for complete order code)
A G O S T	Classification	
	General Purpose	
	ATEX II 1 G EEx ia IIC T6 / T4	
	FM IS (NI), Cl, I, Div. 1&2, Grp. A, B, C, D	
		CSA IS (NI), Cl, I, Div. 1&2, Grp. A, B, C, D
		TIIS EEx ia IIC T6 / T4
Process Connection Type		
1	G 3/4"	
2	1" NPT	
3	DN50 PN16 Flange, 316Ti Stainless Steel	
4	ANSI 2" Class 300 Flange, 316Ti Stainless Steel	
5	DN50 PN16 Flange, 316Ti Stainless Steel with PTFE Flange Seal	
6	ANSI 2" Class 300 Flange, 316Ti Stainless Steel with PTFE Flange Seal	
7	JIS 10K 50A Flange, 316Ti Stainless Steel with PTFE Flange Seal	
A	DN50 PN10 Lap Joint Flange, PVDF	
B	ANSI 2" 150 lbs Lap Joint Flange, PVDF	
C	JIS 10K 50A, Lap Joint Flange, PVDF	
Sensor Body and Seal Material		
A	PFA Body with PTFE Seal	
B	PEEK Body with Viton Seal	
C	PEEK Body with PTFE Seal	
Temperature Rating and Cable Length		
1	Max. temperature 125 °C with 5 m cable	
2	Max. temperature 125 °C with 10 m cable	
5	Max. temperature 180 °C with 5 m cable	
6	Max. temperature 180 °C with 10 m cable	

Order Code

Double Shielded Conductivity Extension Cable

50085473	Per meter
50003987	NEMA 4X junction box with high impedance terminals

Replacement Kits

51500482	PTFE seal kit
51500481	Viton® seal kit
51500483	PTFE disk kit for DN50 flange
51500484	PTFE disk kit for 2" ANSI/JIS 10K 50A flange

Installation Housings

OYA611	Immersion housing
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Accessories

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