

# SteamLine

## Sterilizable electrodes for biotechnological applications

Specification	<b>pH combination electrodes</b>	<b>redox combination electrodes</b>
<b>sensor</b>	membrane glass type S	platinum
<b>sensor form</b>	sphere	disk
<b>membrane resistance (25°C) [MΩ]</b>	500	
<b>zero point at pH</b>	6.8	
<b>temperature range [°C]</b>	0...140	0...140
<b>pH range</b>	0...14	0...14
<b>pressure range</b>	vacuum to 10 bar	vacuum to 10 bar
<b>diaphragm</b>	ceramic	ceramic
<b>design corresponding illustration</b>	A to B	C

Design	<b>length L / type no.</b>	<b>length L / type no.</b>
<b>combination electrode</b>	120 mm / SL 80-120pH	120 mm / SL 89-120Pt
<b>connection: plug head, coaxial</b>	225 mm / SL 80-225pH	225 mm / SL 89-225Pt
	325 mm / SL 80-325pH	325 mm / SL 89-325Pt
	360 mm / SL 80-360pH	
	425 mm / SL 80-425pH	425 mm / SL 89-425Pt
<b>design corresponding illustration</b>	A	C

<b>with integrated temperature sensor Pt 100</b>	120 mm / SL 82-120pHT	
	225 mm / SL 82-225pHT	
	325 mm / SL 82-325pHT	
	360 mm / SL 82-360pHT	
	425 mm / SL 82-425pHT	
<b>connection: plug head, SMEK*</b>		
<b>design corresponding illustration</b>	B	

<b>with integrated temperature sensor Pt 1000</b>	120 mm / SL 81-120pHT	
	225 mm / SL 81-225pHT	
	325 mm / SL 81-325pHT	
	425 mm / SL 81-425pHT	
<b>connection: plug head, SMEK*</b>		
<b>design corresponding illustration</b>	B	

\* SteamLine SL81 and SL82 are also available with VP plug.

**Sterilizable low maintenance electrodes for biotechnology, foodstuff and process chemistry**

SteamLine electrodes are steam-sterilizable sensors with a high degree of reliability and precision.

Very fast and stable response thanks to pH glass type S and new design. The pressurized reference electrode is stable over a long period of time.

Safe sterilization with temperature monitoring is possible. CIP- and SIP-capable, can be used under most difficult conditions. Come with quality certificate, individual serial no. and seal of originality.

**Electrolyte:**

- ▶ pressurized gel, with KCl reserves

**Shaft diameter:**

- ▶ 12 mm

**Connection:**

- ▶ screw plug head with Pg 13.5

**Connecting cable:**

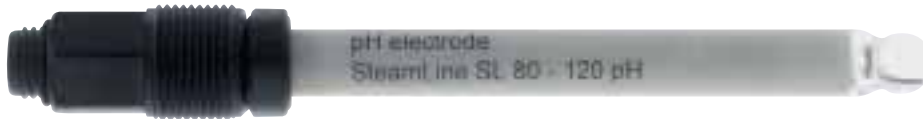
- ▶ coaxial (design A+C):  
e.g. type 9902/05 (length 5 m, with free end)
- ▶ SMEK (design B):  
e.g. type SMEK 19/05 (length 5 m, with free end)

For additional cables, see under Accessories.

For sterilizable electrodes with integrated temperature, redox and conductivity sensors, see chapter MultiSens electrodes.



- A** SL 80-120pH  
SL 80-225pH  
SL 80-325pH  
SL 80-360pH  
SL 80-425pH



- B** SL 81-120pHT  
SL 81-225pHT  
SL 81-325pHT  
SL 81-425pHT  
SL 82-120pHT  
SL 82-225pHT  
SL 82-325pHT  
SL 82-360pHT  
SL 82-425pHT



- C** SL 89-120Pt  
SL 89-225Pt  
SL 89-325Pt  
SL 89-425Pt

