

# SteamLine

## Electrodes for biotechnology

to measure pH, temperature and redox potentials



SteamLine electrodes are state-of-the-art sensors which can be steam-sterilized and provide a high degree of reliability and precision over long periods of time. They have been developed for a wide range of applications in the foodstuff and biotechnology industries. They are also very well suited for continuous measurements in technical process industry. The low maintenance electrodes enables easy installation. The new design of the electrode and the positioning of the temperature sensor have given these electrode excellent physical and electrical characteristics.

- ▶ very fast and stable response of pH glass electrode thanks to tried and tested pH glass and new design
  - ▶ the reference electrode with the newly developed gel electrolyte is pressurized and stable over a long period of time
  - ▶ temperature compensated pH measurement contributes to high degree of precision
    - ▶ fast temperature response
    - ▶ safe sterilization with temperature monitoring is possible
    - ▶ CIP- and SIP-capable, can be used under most difficult conditions
    - ▶ certificate for temperature and pressure
    - ▶ seal of originality

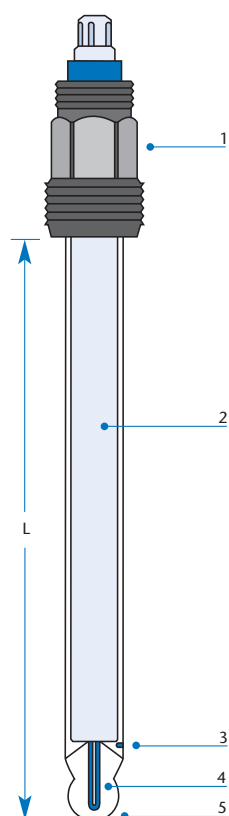
# SteamLine

Low maintenance pH and redox electrode which can be sterilized, also available with integrated temperature sensor

Schott-Geräte's SteamLine electrode range provides users in the areas of biotechnology, foodstuff industry and process chemistry with decisive advantages.

## Specification

pH range	0...14
Temperature range	0...135 °C
Pressure range	Vacuum to 10 bar
Diaphragm	Ceramic
Shaft diameter	12 mm
Connection	IP68, screw plug head with thread Pg 13.5
	SL 80, SL 89: coaxial, SL 81, SL 82: SMEK (optional VP)



- 1 screw plug head  
(coaxial, SMEK, VP)
- 2 reference system
- 3 diaphragm
- 4 temperature sensor
- 5 pH sensitive glass

## Type overall view and accessories

Type-No.	Order No.	Length L	Temperature sensor
SL 80-120pH	28 511 3213	120 mm	-
SL 80-225pH	28 511 3246	225 mm	-
SL 80-325pH	28 511 3254	325 mm	-
SL 80-360pH	28 511 3468	360 mm	-
SL 80-425pH	28 511 3262	425 mm	-
SL 81-120pHT*	28 511 3221	120 mm	Pt1000
SL 81-225pHT*	28 511 3279	225 mm	Pt1000
SL 81-325pHT*	28 511 3476	325 mm	Pt1000
SL 81-425pHT*	28 511 3295	425 mm	Pt1000
SL 82-120pHT*	28 511 3238	120 mm	Pt100
SL 82-225pHT*	28 511 3349	225 mm	Pt100
SL 82-325pHT*	28 511 3287	325 mm	Pt100
SL 82-360pHT*	28 511 3484	360 mm	Pt100
SL 82-425pHT*	28 511 3357	425 mm	Pt100
SL 89-120Pt	28 511 3402	120 mm	-
SL 89-225Pt	28 511 3419	225 mm	-
SL 89-325Pt	28 511 3427	325 mm	-
SL 89-425Pt	28 511 3443	425 mm	-

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

Connection cable	Order No.	Cable length	Application
SMEK 19/05	28 512 9747	5 m	for SMEK plug head
9902/05	28 512 4157	5 m	for coaxial plug head (SL 80, 89)

Other connection cables are listed in the Process Electrodes Catalogue and are available on request.

Calibration solution	Order No.	Content
L 4790	28 513 8402	2 x 30 ampoules, DIN buffer solutions pH = 4,01 / 6,87 steam-sterilized, with manufacturer certificate

Other solutions are listed in the Process Electrodes Catalogue and are available on request.

## Sensor assembly

Sensor assembly and accessories are available on request.

More technical data of SteamLine are available on request.

We reserve the right to make technical changes.

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