

# Electrochemistry Meters

## Series SD (IP 67 waterproof)



The new AQUALYTIC® SD series comprises a range of compact, easy-to-use, hand-held instruments for the accurate measurement of pH, ORP, Con, TDS or Salt. With robust housing and fully waterproof (IP67) casing, these testers are the ideal solution for in-situ testing in environmental, industrial or pool & spa applications.

The intuitive scroll-bar functionality and backlit display enable the easy measurement and simultaneous display of

Result | Temperature | Date & Time | Other Measurement Details.

With 25 sets of data storage, each with date and time stamp, the units also enable the easy recalling of data for record keeping requirements.

Designed and manufactured according to AQUALYTIC® quality standards, the devices are equipped with replaceable electrodes to ensure long-life functionality in the field.

### Delivery Content

Each device is delivered with Batteries/without batteries (depending on the order code), lanyard and instruction manual in robust plastic case with hanger.

SD 50 pH additionally:  
pH 4, 7, 10 buffer tablets (1 strip of 10 tablets each)

### Highlights

- Portable Hand-Held Meter
- Scroll-Through Functionality
- Compact & Robust
- Storage Function
- Backlit Display
- Waterproof (IP67)

### Variants

- SD 50 pH
- SD 60 ORP/Redox
- SD 70 Con
- SD 80 TDS
- SD 90 Salt

## SD 50 pH

<b>Range</b>	0 - 60 °C, 0 - 14 pH
<b>Resolution</b>	0.01 pH
<b>Accuracy</b>	± 0.05 pH
<b>Resolution temperature</b>	0.1 °C; Accuracy: ± 1 °C, selectable °C / °F system
<b>Selectable buffer system</b>	pH 7.00 or pH 6.86
<b>Calibration</b>	1, 2, or 3 points calibration with auto-recognition (NIST / IUPAC)
<b>Temperature compensation</b>	Automatic
<b>Memory</b>	Time and date display / stamp with 25 sets of data storage (non-volatile)
<b>Display</b>	22 x 22 mm LCD screen, with yellow/green backlight
<b>Power supply</b>	2 x CR2032 batteries
<b>Battery life</b>	> 25 hours (continuous use, backlight OFF), low battery indicator on LCD screen
<b>Auto-off</b>	8 minutes non-use
<b>Approval</b>	CE
<b>Order code</b>	4194800 without batteries 4194800-B with batteries

Spare electrode 194820

## SD 80 TDS

<b>Range</b>	0 - 60 °C, < 10.00 ppt <sup>2)</sup>
<b>Resolution</b>	1 ppm (<= 999 ppm) 0.01 ppt (1.0 - 10.00 ppt)
<b>Accuracy</b>	± 3 % FS
<b>Resolution temperature</b>	0.1 °C; Accuracy: ± 1 °C, selectable °C / °F system
<b>Auto switch over ppm and ppt</b>	ppm: 0 - 999 ppt: 1.00 - 10.00
<b>Calibration</b>	up to 2 points calibration <b>manual</b> mode ± 50 % adjustable value
<b>Temperature compensation</b>	Automatic
<b>Memory</b>	Time and date display / stamp with 25 sets of data storage (non-volatile)
<b>Display</b>	22 x 22 mm LCD screen, with yellow/green backlight
<b>Power supply</b>	2 x CR2032 batteries
<b>Battery life</b>	> 25 hours (continuous use, backlight OFF), low battery indicator on LCD screen
<b>Auto-off</b>	8 minutes non-use
<b>Conformity</b>	CE
<b>Order code</b>	4194803 without batteries 4194803-B with batteries

Spare electrode 194822

## SD 60 ORP

<b>Range</b>	0 - 60 °C, -1800 ~ 1800mV
<b>Resolution</b>	0.1 mV (within ± 1000 mV) 1 mV (outside ± 1000 mV)
<b>Accuracy</b>	± 20 mV
<b>Resolution temperature</b>	0.1 °C; Accuracy: ± 1 °C, selectable °C / °F system
<b>Calibration</b>	1 point calibration with ± 150 mV adjustable ORP value
<b>Temperature compensation</b>	Automatic
<b>Memory</b>	Time and date display / stamp with 25 sets of data storage (non-volatile)
<b>Display</b>	22 x 22 mm LCD screen, with yellow/green backlight
<b>Power supply</b>	2 x CR2032 batteries
<b>Battery life</b>	> 25 hours (continuous use, backlight OFF), low battery indicator on LCD screen
<b>Auto-off</b>	20 minutes non-use
<b>Conformity</b>	CE
<b>Order code</b>	4194801 without batteries 4194801-B with batteries

Spare electrode 194821

## SD 90 Salt

<b>Range</b>	0 - 60 °C, < 20.00 ppt ± 2.00 % <sup>3)</sup>
<b>Resolution</b>	0.01 % (when set to "P" % unit) 1 ppm (< 2000 ppm) 0.01 ppt (2.0 - 20.00 ppt)
<b>Accuracy</b>	± 3 % FS
<b>Resolution temperature</b>	0.1 °C; Accuracy: ± 1 °C, selectable °C / °F system
<b>Auto switch over ppm and ppt</b>	ppm: 0 - 1999 ppt: 2.00 - 20.00
<b>Calibration</b>	up to 2 points calibration <b>manual</b> mode ± 50 % adjustable value
<b>Selectable unit system</b>	"P" % or ppt / ppm
<b>Temperature compensation</b>	Automatic
<b>Memory</b>	Time and date display / stamp with 25 sets of data storage (non-volatile)
<b>Display</b>	22 x 22 mm LCD screen, with yellow/green backlight
<b>Power supply</b>	2 x CR2032 batteries
<b>Battery life</b>	> 25 hours (continuous use, backlight OFF), low battery indicator on LCD screen
<b>Auto-off</b>	8 minutes non-use
<b>Conformity</b>	CE
<b>Order code</b>	4194804 without batteries 4194804-B with batteries

Spare electrode 194822

## SD 70 Con

<b>Range</b>	0 - 60 °C, < 20.00 mS <sup>1)</sup>
<b>Resolution</b>	1 μS (<= 1999 μS) 0.01 mS (2.0 - 20.00 mS)
<b>Accuracy</b>	± 3 % FS
<b>Resolution temperature</b>	0.1 °C; Accuracy: ± 1 °C, selectable °C / °F system
<b>Auto switch over μS and mS</b>	μS: 1 - 1999 mS: 2.00 - 20.00
<b>Calibration</b>	1 or 2 points calibration for <b>auto</b> mode Standard: 1413 μS or Standard: 12.88 mS up to 2 points calibration for <b>manual</b> mode ± 50 % adjustable value
<b>Temperature compensation</b>	Automatic
<b>Memory</b>	Time and date display / stamp with 25 sets of data storage (non-volatile)
<b>Display</b>	22 x 22 mm LCD screen, with yellow/green backlight
<b>Power supply</b>	2 x CR2032 batteries
<b>Battery life</b>	> 25 hours (continuous use, backlight OFF), low battery indicator on LCD screen
<b>Auto-off</b>	8 minutes non-use
<b>Conformity</b>	CE
<b>Order code</b>	4194802 without batteries 4194802-B with batteries

Spare electrode 194822

## Conversion table

<sup>1)</sup> 0 - 20.00 mS/cm	=	0 - 20,000 μS/cm
<sup>2)</sup> 0 - 10.00 ppt TDS	=	0 - 10,000 ppm TDS
<sup>3)</sup> 0 - 20.00 ppt NaCl	=	0 - 20,000 ppm NaCl
0 - 20.00 ppt NaCl	=	0 - 2 % NaCl
0 - 20.00 ppt NaCl	=	0 - 20 g/l NaCl
ppm = Parts per Million = mg/l		
ppt = Parts per Thousand = g/l		

