

# SD-Series (IP 67 waterproof)



The new Lovibond® 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

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 Lovibond® quality standards, the devices are equipped with replaceable electrodes to ensure long-life functionality in the field.

Dimensions device:

205 x 44 x 33 mm (L x W x H)

Dimensions plastic-box:

232 x 65 x 47 mm (L x W x H)

## Highlights

- Scroll-Through Functionality
- Compact & Robust
- Storage Function
- Backlit Display
- Waterproof (IP67)

## Delivery Content

- Meter in a robust plastic case with hanger
- 2 Batteries AAA
- Lanyard
- Instruction Manual
- additionally: pH 4, 7, 10 buffer tablets  
1 strip of 10 tablets each (SD 50 pH)



## Technical Specifications SD Hand-Held Meter

### 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 AAA batteries
<b>Battery life</b>	> 350 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>	19 48 00-16 19 48 30-16 in case with batteries, incl. pH buffer set 4.00 / 7.00 and measurement beaker
<b>Spare electrode</b>	19 48 20

### 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 AAA batteries
<b>Battery life</b>	> 100 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>	19 48 03-16
<b>Spare electrode</b>	19 48 22

### SD 60 ORP/Redox

<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 AAA batteries
<b>Battery life</b>	> 350 hours (continuous use, backlight OFF), low battery indicator on LCD screen
<b>Auto-off</b>	20 minutes non-use
<b>Approval</b>	CE
<b>Order code</b>	19 48 01-16
<b>Spare electrode</b>	19 48 21

### 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 AAA batteries
<b>Battery life</b>	> 100 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>	19 48 04-16
<b>Spare electrode</b>	19 48 22

### 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 AAA batteries
<b>Battery life</b>	> 100 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>	19 48 02-16
<b>Spare electrode</b>	19 48 22

#### 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

