



SD 80
TDS

SD 80 Specifications

- 1 Operating range: 0-60 °C, <10.00 ppt
- 2 Automatic pole change between ppm and ppt. ppm: 0~999 ppm; ppt: 1,00~10,00 ppt
- 3 Up to 2-point calibration for manual mode. +/-50 % adjustable value
- 4 TDS resolution: 1ppm (<= 999 ppm) and 0.01 ppt (1.00 - 10.00 ppt); Accuracy: ±3 % FS
- 5 Temperature resolution: 0.1 °C; Accuracy: ±1 °C, optional °C/°F System
- 6 Optional TDS factor, 442:0.7, NaCl:0.5
- 7 Display of time and date with 25 storage locations (not permanent)
- 8 22x22 mm LCD screen with yellow-brown background lighting
- 9 2 x AAA batteries 1.5 V
- 10 Automatic shut-off to save battery life (with 8 min. of inactivity)
- 11 Battery capacity > 100 h with continuous use (without display lighting)
Low battery indicator in the display




Accessories


1950026	AAA batteries in 4-pack (2 batteries required)
19 48 22	Spare electrode
38 48 01	Measuring beaker, 100 ml
19 48 10-16	Plastic box
46 76 42	Conductivity (1413 µS) and TDS (998 ppm) adjusting solution 100 ml
46 76 43	Conductivity (12.89 mS) and TDS (9.02 ppth) adjusting solution 100 ml


Warranty

The warranty for the SD 80 is valid for a period of 2 years from the date of purchase; the warranty for the electrode is 12 months. This does not cover damages resulting from improper handling or based on mechanical damage.


1. On/Off function GB


-  Press briefly
-  If ! appears, deactivate with
-  Automatic shut-off after 8 min. of inactivity


-  Press and hold for 3 sec. to switch off the device



-  Display lighting on/off

2. Measurement

-  Hold the device without protective cap in the sample water to be measured so that the device is immersed in the sample water no higher than the seal ring.

-  The measurement is displayed.


-  Briefly press ! to freeze/release the measurement

-  Press and hold for 3 sec. to save the measurement
-  The storage location (e.g. 01) appears in the display while the button is pressed

3. Calibration



The electrode must be rinsed off after each measurement/calibration with distilled water. Recalibrate as necessary. If the temperature is outside of the measuring range, 'ERR' appears. The measuring device automatically returns to measuring mode. When the readout of the standard is more than 30 % outside of the standard buffer range, 'ERR' appears.


Autom. recognition of ! limited to: 100-999 ppm; ! shows the type of calibration in the display.


-  Pull off the protective cap, switch on the device, rinse the electrode with distilled water, then immerse in the calibration ! solution.



-  Press Cal for 3 sec.


-  CAL blinks in the display

-  The value can be adjusted as follows:
-  Press and hold (+) to increase, or with

-  increase


-  Press (-) to decrease


-  Saving and closing the calibration
-  The device jumps back to display mode


-  Remove the protective cap, switch on the device, rinse the electrode with distilled water, then immerse in the calibration ! solution.


-  Press Cal for 3 sec.



-  CAL blinks in the display


-  The value can be adjusted as follows:

-  Press and hold (+) to increase, or with


-  increase

-  Press (-) to decrease

-  Saving and closing the calibration
-  The device jumps back to display mode

-  ! ! shows the type of calibration in the display.

4. Viewing saved data

-  Switch on

-  Press for 3 sec.

-  The last storage location blinks



-  Confirm

-  The last storage location is shown



-  Switch between storage locations


-  To close

5. Deleting saved data

-  View the saved values (see 4.)
-  Press for 3 sec.

-  CLEAR blinks


-  Confirm deletion of values
-  All values are deleted

-  Process closes automatically


6. Selection of TDS-factor

-  Switch on

-  Press for 3 sec.

-  Press 1 x
-  Adjusted TDS factor blinks

-  Confirm


-  Selection of TDS factor (0.7 or 0.5)



-  Save and close


7. Type of display of date and time

-  Switch on

-  Press for 3 sec.

-  Press 4 x


-  Date appears
-  Confirm

-  Choose between 12-hour clock (AM/PM) and 24-hour clock


-  Save and close

8. Adjusting date and time

-  Switch on

-  Type of display must be selected beforehand (see 7.)

-  Press for 3 sec.

-  Press 2 x


-  Time blinks

-  Confirm

-  Minutes can be adjusted.


-  To increase


-  To decrease

-  Save and switch to hours


-  To increase

-  To decrease

-  Save and switch to year

-  To increase

-  To decrease

-  Save and switch to month/day

-  To increase

-  To decrease

-  Save and close


9. Adjusting the temperature unit


-  Switch on

-  Press for 3 sec.

-  Press 3 x

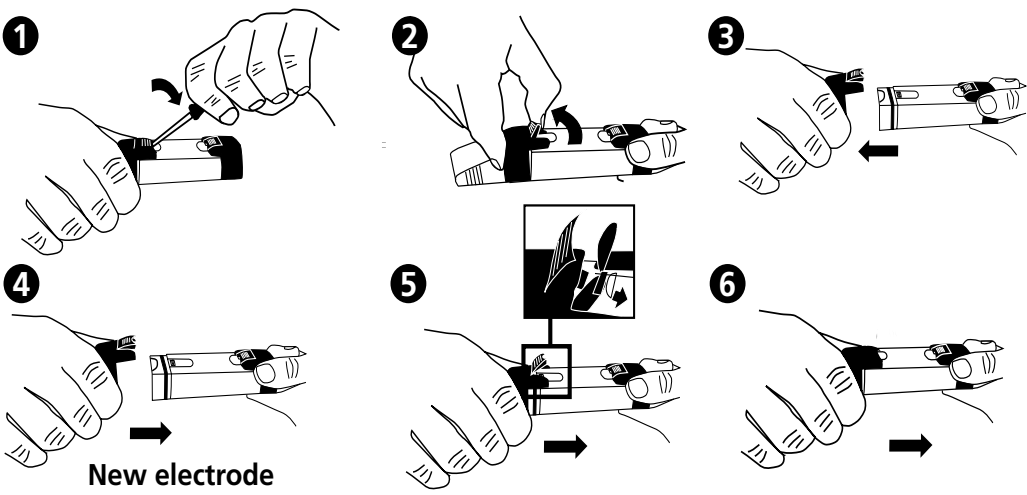
-  Temperature unit blinks

-  Confirm

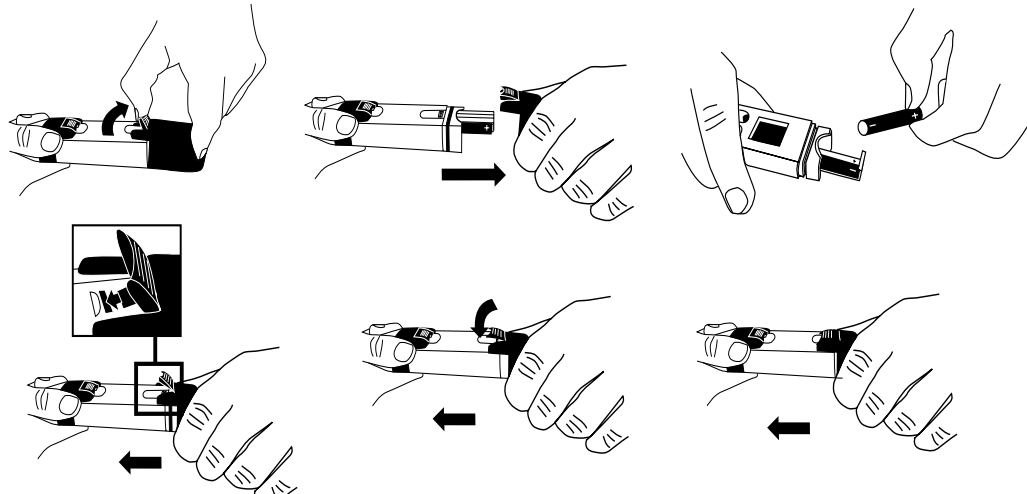
-  Selection of temperature unit (°F/°C)

-  Save and close

Replacing electrodes



Replace battery



Error messages and procedure

Description	Measuring range	Procedure
Err 1 Electrode not installed or defective	Thermistor: 0.5~100 kΩ	Install electrode or replace
Err 2 not used		
Err 3 Temperature outside of the measuring range	0~60 °C	Bring the solution to a temperature within the measuring range
Err 4 not used		
Err 5 Calibrated offset outside of the measuring range	70 -130 % (compare to the standard value)	Calibrate the electrode - again, replace it, or use the standard value (remove batteries)
Err 6 Conductivity outside of the measuring range	< 10.00 ppt	Use a different solution