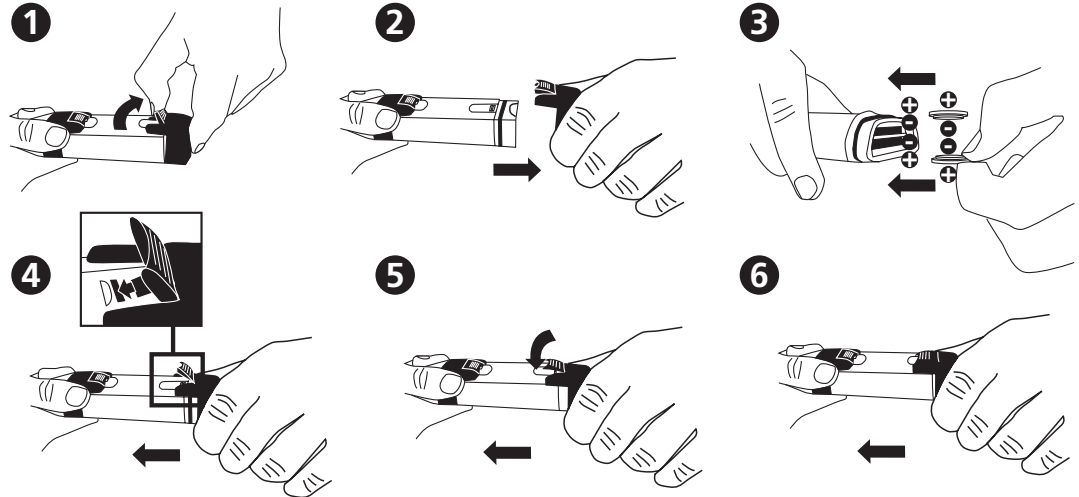




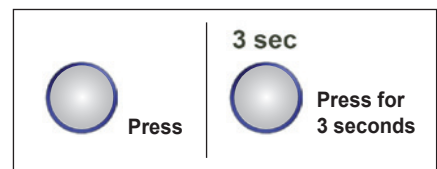
SD 50
pH

Insert the batteries



MEASUREMENT

Remove protective cap from the probe



Automatically turns off after 8 minutes of inactivity.

A. Power ON/OFF

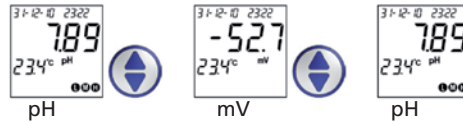


B. Lock/Unlock Data



Possible slight delay after pressing before freeze of the data (!).

C. Select pH/mV



Mode „mV“ does not show ORP on the display, only millivolts.

to switch, unfreeze data (see B).

D. Backlight ON/OFF



E. Store Data



After 3 sec. the file no. temporarily appears on the display, e.g. 02.
Once the storage has reached max. capacity, the data will overwrite the oldest files.

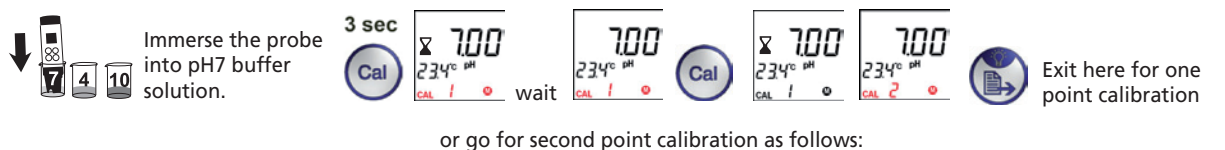
pH CALIBRATION

Characters in **RED** represent „Flashing symbols“.

F. pH Buffer 7.00 -> 4.00 -> 10.00

- Re-Calibrate according to individual recommendations! Rinse the electrode with distilled water after each measurement.
- Choose Lovibond Standard Solutions or produce them with buffer tablets according to the kit manual (see backside).

Remove protective cap from the probe.
Power ON (see A)



or go for second point calibration as follows:



or go for third point calibration as follows:



(4) (7) (10)
L M H

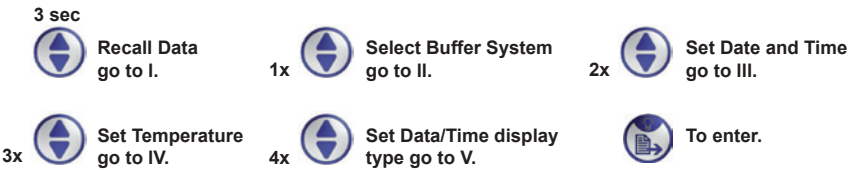
Low, Middle, High
on the Display

SETUP

G. System Setup

Characters in **RED** represent „**Flashing symbols**“.

Unfreeze data first (see frontside B) before Menu selection.



I. Recall Data



Delete stored data.

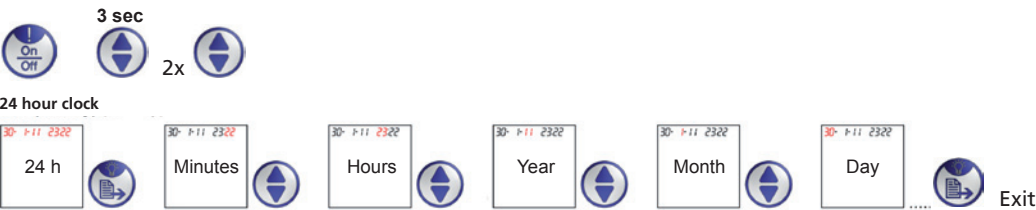


II. Select Buffer System



III. Set Date and Time

Select V. 'Set Data/ Time display type' first.



Adjustment: to increase (+); to decrease (-)

IV. Set Temperature system (°C/°F)



V. Set Data/Time display type



Error Code and Actions			
#	Description	Range	Actions
1	Electrode not installed or bad	Thermistor: 0.5k~100k Ω	Install or replace electrode
2	pH out of range	0~14pH	Use other solution or recalibrate or replace electrode
3	Temperature out of range	0~60 °C	Bring solution to the temperature within range
4	Offset out of range	-60~60mV	Use new buffer or replace electrode
5	Slope out of range	85%~115%, 50~68 (mV/pH)	Use new buffer or replace electrode
6	mV out of range	-1800~1800mV	Use other solution

SD 50 pH Specifications/Features	
#	Specification
1	Operating range: 0~60°C, 0~14pH, -1800~1800mV
2	pH resolution: 0.01pH; Accuracy: ±0.05 pH
3	Selectable buffer system (pH 7.00 or pH 6.86); 1, 2, or 3 points calibration with auto-recognition
4	Automatic Temperature compensation
5	mV resolution: 0.1mV(within ±1000mV) and 1mV(outside ±1000mV); Accuracy: ±20mV
6	Temperature resolution: 0.1°C; Accuracy: ±1°C , Selectable °C/°F system
7	Time and date display/stamp with 25 sets of data storage (non-volatile)
8	22x22mm LCD screen, with Yellow Green backlight
9	2x CR2032 batteries
10	Battery life >25 hr (continuous use, backlight OFF), low battery indicator on LCD screen
11	Auto-power off to save battery (8 minutes inactivity)

pH Buffer

Order Codes	
721250	pH buffer-set 4.00/7.00/10.00 (25°C)
721252	pH buffer 4.00 (25°C) 1 litre
721254	pH buffer 7.00 (25°C) 1 litre
721256	pH buffer 10.00 (25°C) 1 litre
515600	Buffer tablets pH 10 100 pc.
515601	Buffer tablets pH 10 250 pc.
515610	Buffer tablets pH 7 100 pc.
515611	Buffer tablets pH 7 250 pc.
515620	Buffer tablets pH 4 100 pc.
515621	Buffer tablets pH 4 250 pc.

Accessories

1950017	Battery CR 2032 (2 Batteries required)
194820	pH replacement electrode
384801	Beaker, 100 ml

Preparation of buffer solution

- Fill a clean beaker with 20 ml deionised/ distilled water.
- Add one buffer tablet of the required pH-value and shake or crush with a clean stirring rod until the tablet disintegrates.
- Allow to stand for about two minutes to ensure that the buffer is completely dissolved and to allow any insoluble particles to settle.
- Immerse the electrode into the beaker and calibrate the SD 50 in accordance with this instruction manual.
- Remove the electrode and rinse it thoroughly.
- Use the buffer solution only once.

Content

- 1 pH Meter SD 50 in a robust plastic case with strap
- 2 Batteries
- 10 pH 4 Buffer tablets (1 strip)
- 10 pH 7 Buffer tablets (1 strip)
- 10 pH 10 Buffer tablets (1 strip)
- 1 Lenyard
- 1 Instruction Manual

Note

It is important to rinse the electrode before immerse in a buffer solution of a different value.

Accuracy
 Fresh buffer solutions should always be made up in deionised/distilled water. The maximum tolerance based on the pH values 4, 7 and 10 is ±0.05 pH.

Warranty
 The waterproof SD 50 is warranted to be free from manufacturing defects for 2 years and electrode (probe) modul for 6 months.

VI. Electrode Replacement

