

SETUP menu

How to Enter in Setup Menu

Instrument **OFF**



Long press CAL Power on

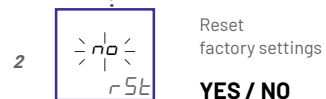
instrument with **2 Buttons**

Controls



Parameter Selection
(only model Cond 1)

COND / TDS



Reset
factory settings

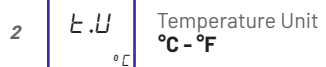
YES / NO

instrument with **3 Buttons**

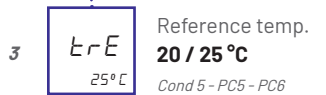
Controls



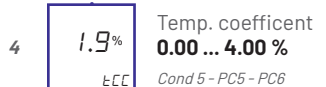
TDS factor
0.40 ... 1.00
Cond 5 - PC5



Temperature Unit
°C - °F



Reference temp.
20 / 25 °C
Cond 5 - PC5 - PC6



Temp. coefficient
0.00 ... 4.00 %
Cond 5 - PC5 - PC6



Reset
Yes - No

DATASHEET

	pH1	Cond1	PX4	pH 5 / pH 5 FOOD	COND 5	ORP 5	PC 5	PC 6
Parameters	pH	Cond - TDS	pH - Redox - Temp	pH - Temp	Cond - TDS - Salt - Temp	Redox - Temp	pH - Cond - TDS - Salt - Temp	pH - Redox - Cond - TDS - Salt - Temp
pH measuring range	0 ... 14	-	-2 ... 16	-2 ... 16	-	-	-2 ... 16	-2 ... 16
Resolution	0.1	-	0.01	0.01	-	-	0.01	0.01
Relative accuracy	± 0.1	-	± 0.01	± 0.01	-	-	± 0.01	± 0.01
Points of calibration	1...2	-	1...3	1...3	-	-	1...3	1...3
Buffer auto recognition	3 USA Buffer	-	5 USA Buffer	5 USA buffer	-	-	5 USA buffer	5 USA buffer
Calibration points indication	YES	YES	YES	YES	YES	YES	YES	YES
Stability measurement indication	YES	YES	YES	YES	YES	YES	YES	YES
Electrode condition	-	-	YES	YES	-	-	YES	YES
mV (pH) measuring range	-	-	-1000 mv...+1000 mv	-1000 mv...+1000 mv	-	-	-1000 mv...+1000 mv	-1000 mv...+1000 mv
Resolution	-	-	0.1 / 1 mv	0.1 / 1 mv	-	-	0.1 / 1 mv	0.1 / 1 mv
mV (redox) measuring range	-	-	-1000 mv...+1000 mv	-	-	-1000 mv...+1000 mv	-	-1000 mv...+1000 mv
Resolution	-	-	0.1 / 1 mv	-	-	0.1 / 1 mv	-	0.1 / 1 mv
Calibration	-	-	1 point	-	-	1 point	-	1 point
COND measuring range	-	0,01 µS ... 199,9 mS	-	-	0,01 µS...199,99 mS	-	0,01 µS...199,99 mS	0,01 µS...199,99 mS
Resolution	-	Automatic scale	-	-	Automatic scale	-	Automatic scale	Automatic scale
Relative accuracy	-	±2 % full scale	-	-	±2 % full scale	-	±2 % full scale	±2 % full scale
Calibration points COND	-	1...2	-	-	1...3	-	1...3	1...3
Calibration standard recognition	-	1413 µS / 12.88 mS	-	-	84 µS/ 1413 µS/ 12.88 mS	-	84 µS/ 1413 µS/ 12.88 mS	84 µS/ 1413 µS/ 12.88 mS
Indication of calibration points	-	YES	-	-	YES	-	YES	YES
TC Temperature coefficient	-	0.00 ... 4.00% / °C	-	-	0.00 ... 4.00% / °C	-	0.00 ... 4.00% / °C	0.00 ... 4.00% / °C
TR Reference temperature	-	25 °C	-	-	20 / 25 °C	-	20 / 25 °C	20 / 25 °C
TDS measuring range	-	0.01 ppm ... 199,9 ppt	-	-	0.01 ppm ... 199,9 ppt	-	0.01 ppm ... 199,9 ppt	0.01 ppm ... 199,9 ppt
TDS Factor	-	0.40 ... 1.00	-	-	0.40 ... 1.00	-	0.40 ... 1.00	0.40 ... 1.00
Relative accuracy	-	±2 % reading value	-	-	±2 % reading value	-	±2 % reading value	±2 % reading value
Salinity measuring range	-	-	-	-	0.01 mg/l ... 100,0 g/l	-	0.01 mg/l ... 100,0 g/l	0.01 mg/l ... 100,0 g/l
Temperature measuring range °C	-	-	0 ... 60 °C	0 ... 60 °C	0 ... 60 °C	0 ... 60 °C	0 ... 60 °C	0 ... 60 °C
Resolution/ Accuracy	-	-	0.1 / ± 0.2 °C	0.1 / ± 0.2 °C	0.1 / ± 0.2 °C	0.1 / ± 0.2 °C	0.1 / ± 0.2 °C	0.1 / ± 0.2 °C
Auto off	YES, after 8 min. not used	YES, after 8 min. not used	YES, after 8 min. not used	YES, after 8 min. not used	YES, after 8 min. not used	YES, after 8 min. not used	YES, after 8 min. not used	YES, after 8 min. not used
Display	LCD	LCD	3 color backlit LCD	3 color backlit LCD	3 color backlit LCD	3 color backlit LCD	3 color backlit LCD	3 color backlit LCD
IP Protection	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
Battery life	> 300 Hrs	> 300 Hrs	> 200 Hrs	> 200 Hrs	> 200 Hrs	> 200 Hrs	> 200 Hrs	> 200 Hrs
Replaceable sensor	X	X	•	•	•	•	•	•

MODELS



pH calibration

2 points calibration

- Instrument **ON**
- 1 Press CAL
 - 2 Rinse with deionized water and dry
 - 3 Put the probe in buffer solution **pH 7,00**
 - 4 Wait for stability indication
 - 5 Press CAL to confirm
 - 6 *2nd point*
Rinse with deionized water and dry
 - 7 Put the probe in buffer solution **pH 4,01**
 - 8 Wait for stability indication
 - 9 Press CAL to confirm
 - 10 Press ESC

COND calibration

2 points calibration

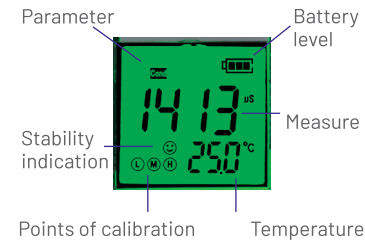
- Instrument **ON**
- 1 Press CAL
 - 2 Rinse with deionized water and dry
 - 3 Put the probe in buffer solution **1413 uS**
 - 4 Wait for stability indication
 - 5 Press CAL to confirm
 - 6 *2nd point*
Press CAL
 - 7 Rinse with deionized water and dry
 - 8 Put the probe in buffer solution **12,88 mS**
 - 9 Wait for stability indication
 - 10 Press CAL to confirm

REDOX calibration

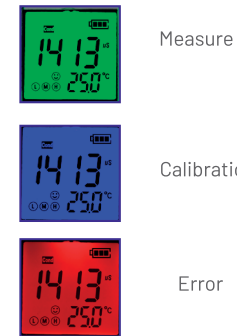
Manual calibration on 1 point

- Instrument **ON**
- 1 Press CAL
 - 2 Rinse with deionized water and dry
 - 3 Put the probe in buffer solution
 - 4 Wait for stability indication
 - 5 Stable value starts blinking
 - 6 **MODE**
One way adjustment:
Press MODE until you reach the right value.
Maximum adjustment allowed is +75 mV or -75 mV from the starting point.
 - 7 Press CAL to confirm the chosen value.

DISPLAY

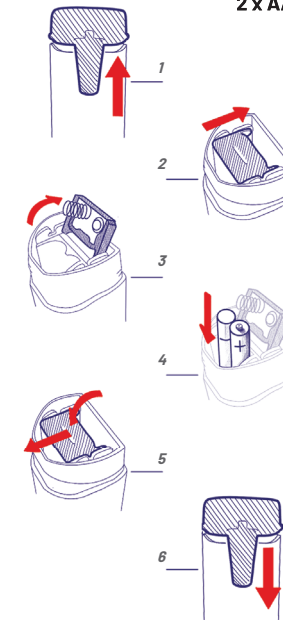


DISPLAY colors



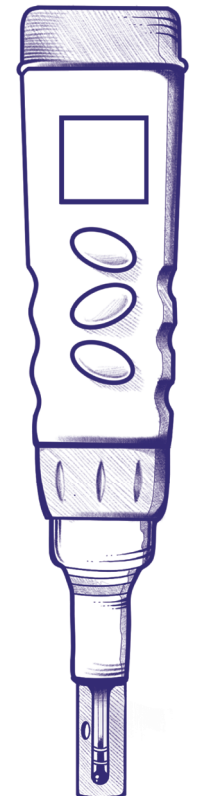
BATTERIES

XS Tester works with normal and rechargeable batteries:
2 x AAA 1,5 V



WATERPROOF TESTERS

Quick Guide

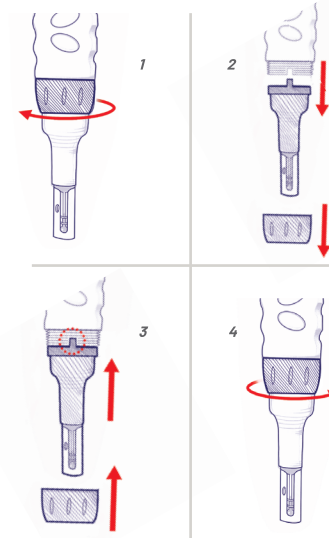


ERRORS description

Error	Contents
Er 1	Wrong pH buffer solution, or the recognition of calibration solution out of range. 1. Check the buffer solution is pristine. 2. Check the connections of the electrode. 3. Replace pH electrode with a new one.
Er 2	Measure not stable. Wait for stability icon 😊
Er 3	During calibration, the measuring value is not stable for ≥3min. 1. Check for air bubbles in glass bulb. 2. Replace pH electrode with a new one.
Er 4	Electrode potential out of range <-60mV or >60mV
Er 5	Electrode slope out of range <85% or >110% 1. Check for air bubbles in glass bulb. 2. Check the buffer solution is pristine 3. Replace pH electrode with a new one.

SENSOR replacement

*only for 4 - 5 - 6 series



- Press **ESC** to exit from the calibration, at any time.
- Store pH electrode in **STORAGE** solution
- **Do not** store pH electrode in **water**
- At the first use, replace the gel storage in the cap with the **liquid storage** solution.

Temperature compensation:

Conductivity measures are automatically compensated in temperature. It is possible to change the reference temperature in the setup Menu.

- Store ORP electrode in **STORAGE** solution
- **In calibration, to low the value**, continue to press Mode button. The value increase, but after reaching the high limit (+75mV from the s.p.), it jumps to -75mV from the starting point.