

8 Series



Easy is the name of the game





Quality Test Report

Instrument Model: _____

Serial Number: _____

EN: We certify that the above mentioned instrument has been tested in our laboratory and conforms to the specifications mentioned in the data sheet.

DE: Wir bestätigen, dass die oben angegebene Gerät wurde in unserem Labor getestet und entspricht den im Datenblatt genannten Spezifikationen.

IT: Si certifica che lo strumento di cui sopra è stato testato nel nostro laboratorio ed è conforme alle specifiche menzionate nella scheda tecnica.

ES: Certificamos que el mencionado instrumento ha sido probado en nuestro laboratorio y se ajusta a las especificaciones mencionadas en la hoja de datos.

FR: Nous certifions que l'instrument mentionné ci-dessus a été testé dans notre laboratoire et est conforme aux spécifications mentionnées dans la feuille de données.

Date: _____

Datum/Data/Fecha/Date

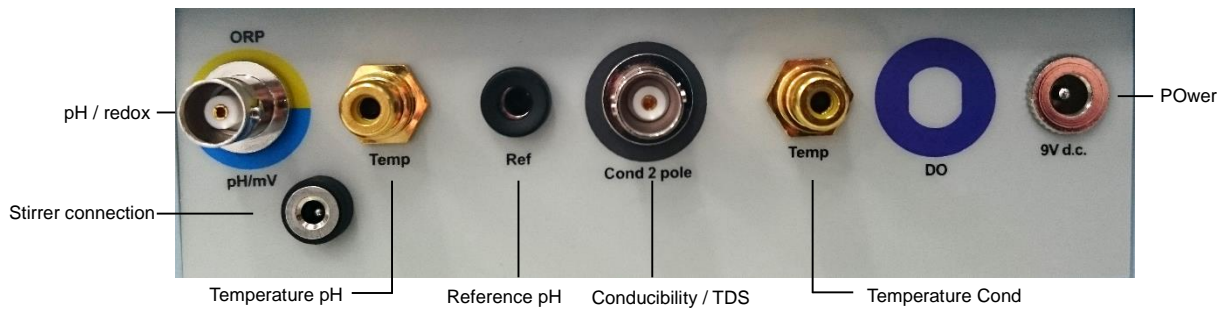
Signature: _____

Unterschrift /Firma










Description



Back Panel



Button description

Button	Description
	On/Off button
	To switch the measure parameter: pH → mV → uS/cm → mg/L
	<ul style="list-style-type: none"> In Measure mode: press for 3 seconds to start the calibration. In Setup mode or calibration mode: press to return in measure mode.
	<ul style="list-style-type: none"> In Measure mode: press to enter in Setup. In Calibration mode: press to confirm the calibration. In Setup mode: press to select the parameter and confirm.
	<ul style="list-style-type: none"> Scroll the parameter in Setup menu Increase the selected value
	<ul style="list-style-type: none"> Scroll the parameter in Setup menu Decrease the selected value
	<ul style="list-style-type: none"> On/Off stirring
	<ul style="list-style-type: none"> Increase stir velocity
	<ul style="list-style-type: none"> Decrease stir velocity

Setup Menu

	Description	Selection	Default
pH			
P1.1	pH buff selection	USA – NIST - User	USA
P1.2	Resolution	0,01 – 0,1	0,01
P1.7	Temp calibration for pH	± 5,0 °C	25,0 °C
P1.8	Restore factory default	Yes – No	No
Cond / TDS			
P2.2	Cell constant	10 – 1.0 – 0.1	1.0
P2.3	Cond buffer selection	User – Auto	Auto
P2.6	Reference temperature	15,0 ... 30,0 °C	25,0 °C
P2.7	Temp compensation factor	0 ... 10%	1,91 %
P2.8	Temp calibration for Cond	± 5,0 °C	25,0 °C
P2.9	TDS factor	0,40 ... 1,00	0,71
P2.10	Restore Factory default	Yes - No	No
Configuration			
P6.8	Reading with HOLD	Yes - No	No
P6.12	Temperature Unit	°C - °F	°C


pH Calibration

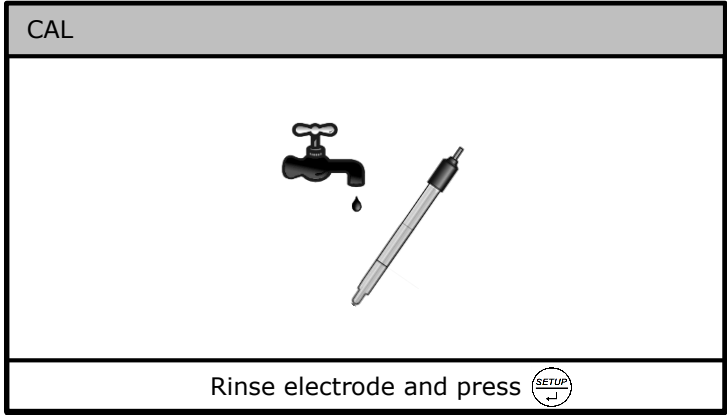

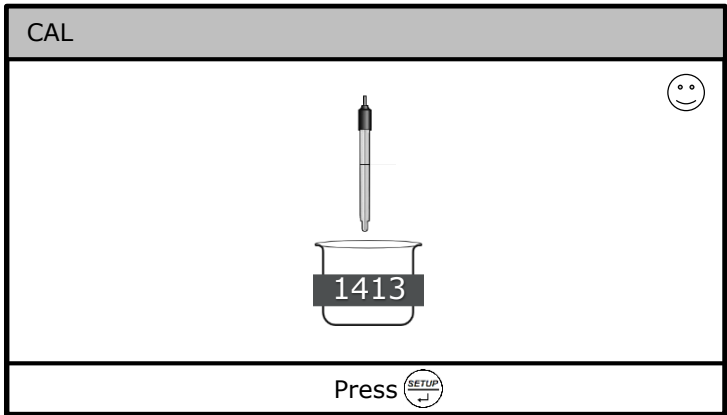


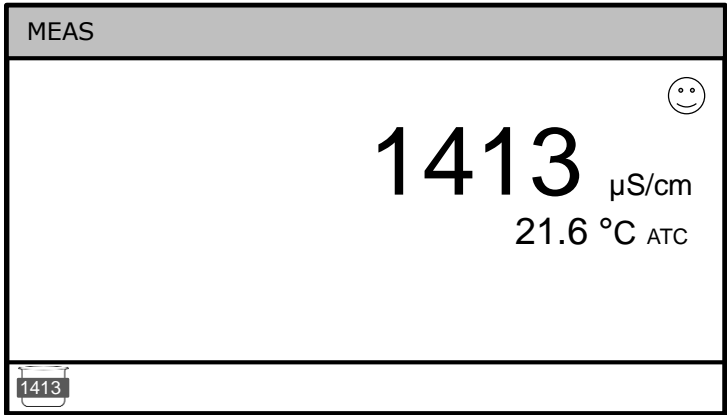
To start the pH calibration, It is necessary to connect the pH electrode and the temperature sensor to the instrument, and then press for 3 seconds.

<p>1</p>		<p>Rinse the electrode with distilled water and press </p>
<p>2</p>		<p>Immerse the electrode in standard buffer solution pH 7.00, wait for the stable reading, and when the stability icon appears, press .</p>
<p>3</p>		<p>Wait for the calibration end. If you want a multipoint calibration, press and repeat steps 2 and 3. This instruments can be calibrated up to 3 points.</p> <p>To exit from calibration, press </p>



Conductivity Calibration


To start the conductivity calibration, It is necessary to connect the conductivity cell and the temperature sensor to the instrument, and then press  for 3 seconds.

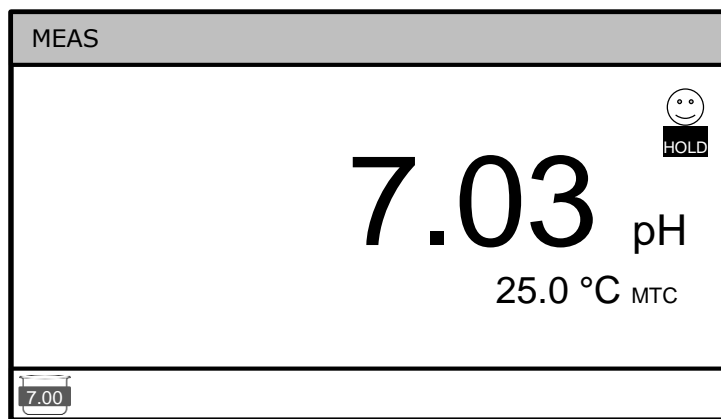
<p>1</p>		<p>Rinse the conductivity cell with distilled water  press</p>
<p>2</p>		<p>Immerse the cell in a standard conductivity solution (for example 1413 $\mu\text{S}/\text{cm}$), and wait for the stable reading.</p> <p>When  appears , press .</p>
<p>3</p>		<p>When calibration is finished, the instrument return automatically in measurement mode.</p> <p>To make a multipoint calibration repeat all the steps for every interested point.</p>

This instrument can be calibrated automatically on these points:

- 84,0 μS – 1413 μS – 12.88 mS – 111,8 mS

Measure

- Turn On the instrument, and connect the conductivity cell and the temperature probe
- Using Mode button, select the right measurement parameter:
pH → mV (Redox) → $\mu\text{S}/\text{cm}$ (Conducibility) → ppt (TDS).
- Place the conductivity cell and the temperature probe in the sample to be analyzed.
- Wait for the stability. When the display shows ☺, It means stable measure, and now we can read the value.
- If HOLD mode is active (P6.8), when the measurement is stable the HOLD icon will appear. The value displayed is frozen, allowing the user to make use of the data with more calm. By pressing the button , the instrument starts to measure continuously, until the next stable reading.



Example of stable reading

Note

- Store the pH electrode in the storage solution, when not used in the measurement. With this little forethought you can prolong the life time of the electrode, and the measurement is always stable and fast.
- Storing the pH electrode in water can cause serious damage to the electrode.
- If there are air bubbles inside the membrane measurement is compromised. Shake the electrode to remove them.
- Keep the conductivity cell in distilled water when not used in the measurement. This will ensure a more stable and faster reading.
- Make sure there are no air bubbles inside the conductivity probe. If there are bubbles, shake the cell. The presence of air bubbles compromises measurements.

Factory Reset

If the instrument does not work properly, it could be useful to make a factory reset.

For the pH parameter, the factory reset is P1.8 in the setup, for the conductivity is P2.10.

Choose Yes and confirm.

Technical Specification

	pH8	Cond8	PC8
pH measuring range	0...14		0...14
Resolution / Relative accuracy	0.1 / 0.01		0.1 / 0.01 / ±0,01
Points of calibration	1...3		1...3
Buffer recognized	USA, NIST, 2 USER		USA, NIST, 2 USER
Indication of calibration points	YES		YES
Indication electrode condition	YES		YES
Criteria of measurement stability	Medium		Medium
mV (redox) measuring range	± 2000		± 2000
Resolution	0.1 / 1		0.1 / 1
COND measuring range		0,00...200 mS	
Resolution / Relative accuracy		Automatic scale/±0,5 % value reading	
TDS measuring range		0,1mg/L...100 gr/L	
TDS Factor		0.40...1.00	
Relative accuracy		±0,5 % value reading	
Temperature measuring range		0...100	
Resolution/ Accuracy		0,1/± 0,2°C	
Temperature compensation		Manual or automatic (NTC 30KΩ) 0...100° C	
Temperature calibration	YES		YES
Calibration points COND		1...4	
Calibration standard recognized		84, 1413 µS / 12.88, 111.8 mS 1 point user defined	
Indication of calibration standard		YES	
TC Temperature coefficient		0,00...10,00% / °C	
TR Reference temperature		15...30°C	
Indication of cell condition		YES	
Type of cell		2 pole	
Cell constant		0.1 / 1 / 10	
Display		Matrix, 2 colors	
Inputs		BNC, Jack phono (ATC)	2xBNC, 2xJack phono (ATC)
Magnetical stirrer		NO in basic version, YES in stirrer version	YES
Speed controll stirrer		0...3000 rpm	
IP Protection		IP 54	
Power supply		AC/DC adapter 9 V / 300	
Dimensions		200x220x100mm , 360x220x100 mm with stirrer	360x220x100 mm
Weight		950gr without stirrer, 1250gr with stirrer	1250 gr

