QUICK GUIDE

MULTI-PARAMETER TESTER 35

pH/ Conductivity/ TDS/ Salinity/ Temperature

PCSTestr35, PCTestr35, PTTestr35

EUTECH INSTRUMENTS
Technology Made Easy...

OAKTON®

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ISO 9001 CERTIFIED

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68X441601 Rev 0 Jan'08

Thank you for purchasing the multi-parameter tester. Please use the following instructions to set up and calibrate your tester before taking measurements.

There are **3 stages** to execute before using your meter:

STAGE 1 : Conditioning and temperature calibration

STAGE 2: Setup the system and the parameters

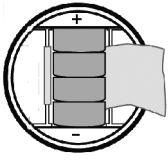
STAGE 3 : Calibrate the parameters

BEFORE YOU BEGIN

you must first load batteries, condition the tester and calibrate the temperature.

BATTERIES

Twist and unscrew the top cover and insert the 4 batteries (LR44 1.5V) as shown in this picture. Note the polarity.



STAGE 1

CONDITIONING

Condition your tester by immersing it in tap water for at least 30 minutes before use. **DO NOT** use de-ionized water.

CALIBRATING THE TEMPERATURE

Before taking measurements, it is important to calibrate your tester to read accurately. This procedure is only done once in a long while as the calibration for temperature will remain accurate unless used under severe conditions.

FOLLOW THESE STEPS:

1. Press the **ON** key
The tester is now in Measurement mode.

2. Place a standard thermometer in the sample for reference. If using a mercury thermometer, allow some time to reach correct reading.

3. Then place tester into the same sample. Allow some time for sensor to stabilize.

4. Press **MODE** to select the pH measuring mode. Then press the **CAL** key.

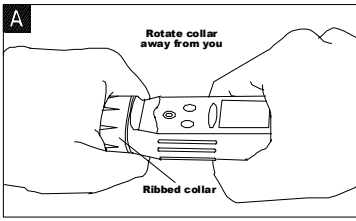
5. Press the **HOLD** key for **5 seconds** and wait till screen changes.

6. Use the ▲ and ▼ keys to manually adjust until you reach the correct temperature of your sample according to the reference thermometer.

7. Press **ENT** to confirm and return to the PH measuring mode.

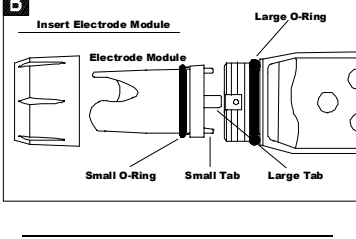
NOTE: Once calibrated, you don't have to do this for any other parameter as temperature is common to all.

CHANGING THE SENSOR



After twisting the ribbed collar off, hold the electrode/sensor module and pull straight out.

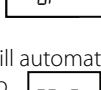
Then replace the new electrode/sensor, ensuring the pins are lined up to the connector before inserting.



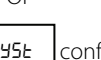
STAGE 2 : SET UP

1. Turn your tester off. Then hold the **ENT** key down and press **ON/OFF** to enter the Setup mode.

2. The display will show



Then it will automatically change to 

3. Use the ▲ and ▼ keys to select 

Or

4. Press

confirm.

Select **SYSt** to enter the main menu for general settings.

OR

Select **PArA** to set up the various parameters – pH, COND, TDS, Salinity.

SAVING THE SET UP

After any manual changes have been done during set up, you are required to save the setting.

1. Press both ▲ and ▼ keys at the same time and release.

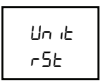
2. Press again until you see

3. Use either ▲ OR ▼ key to toggle between YES and NO. Selecting YES will save your changes/ calibrations.

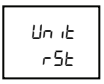
NOTE: If you did NOT make changes or recalibrate, this screen will NOT appear.

SYSTEM SETUP

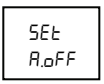
After selecting SYSt, you will see the display



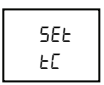
Use the ▲ and ▼ keys to switch to other settings and press **ENT** to select :



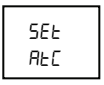
Use this to reset the calibration or factory settings.



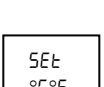
Use this to turn on or off the AUTO OFF function.



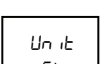
Use this to set the temperature coefficient.



Use this to turn on or off the Automatic Temperature Compensation.



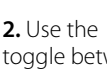
Use this to set the temperature unit in degrees Celsius or Fahrenheit.



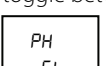
Resetting previous calibrations or factory settings

1. When the above screen appears, press **ENT** to select.

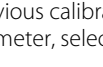
2. Use the ▲ and ▼ keys to toggle between



3. To reset previous calibrations in the pH parameter, select



by pressing **ENT**.

Then select 

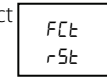
by pressing **ENT** to reset your previous settings

OR

use the ▲ and ▼ keys to select 

to reset the factory settings.

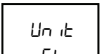
Press **ENT** to confirm and return to 

4. To reset calibrations for all other parameters, press **ENT** to select 

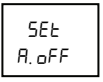
and follow the same instructions as point number 3 above.

Turning the AUTO OFF function on or off

1. Use the ▲ and ▼ keys from

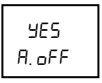


and find

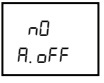


2. Press **ENT** to select it.

Use the ▲ and ▼ keys to switch between



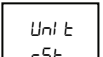
and



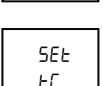
Selecting YES means your tester will turn OFF automatically if it is not used after a 8.5 minutes.

Setting the Temperature Coefficient

1. Use the ▲ and ▼ keys from



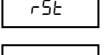
and find



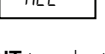
2. Press **ENT** to select it.
The standard coefficient used is 2.1. Press **ENT** if this is correct for your sample.
If not, use the ▲ and ▼ keys to manually set the coefficient, then press **ENT** when done.

Turning on or off the Automatic Temperature Compensation

1. Use the ▲ and ▼ keys from

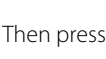


and find



2. Press **ENT** to select it.

3. Use the ▲ and ▼ keys to select either



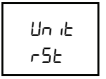
OR

Then press **ENT**.

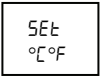
Selecting YES will activate the automatic temperature compensation function.
Selecting nO will activate manual function.

Setting up the temperature unit of measurement

1. Use the ▲ and ▼ keys from

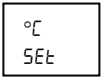


and find

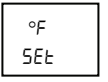


2. Press **ENT** to select it.

3.Use the ▲ and ▼ keys to select either



OR



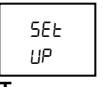
Press **ENT** when done.

4. Save the changes as described on page 6.

-END OF SYSTEM SETUP –

PARAMETER SETUP

1. Return to



and press **ENT**.

2. Then use the ▲ and ▼ keys to select

and Press **ENT**.

You will see the

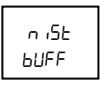
displayed on the screen first.

3. Use the ▲ and ▼ keys to scroll to COND, TDS or SALT parameter.

4. Press **ENT** to select the parameter you want to set up.

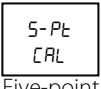
Setting up the pH Buffer

1. At the above display, press **ENT**.
2. Use the ▲ and ▼ keys to select either

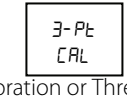


OR

Then press **ENT** to confirm.
3. Again, use the ▲ and ▼ keys to select either

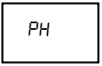


OR



Five-point calibration or Three point calibration.

4. Then press **ENT** to confirm. This will bring you back to



Cond

Setting up the Conductivity Parameter

1. From PArA press **ENT**.

Then use ▲ and ▼ keys to select Cond

2. Press **ENT**.

3. Then use ▲ and ▼ keys to select either

YES A.CAL OR nO A.CAL

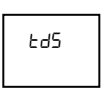
Selecting YES means the automatic calibration will be activated. Press **ENT** to confirm.

4. Then use ▲ and ▼ keys to select either

YES SPC OR nO SPC

Selecting YES means the Single Point Calibration will be activated. Press **ENT** to confirm and return to the main menu.

Selecting nO means multipoint calibration will be activated.



Setting up the TDS Factor

1. From 

press **ENT**.

Then use ▲ and ▼ keys to select 

2. Press **ENT**.

3. Use the ▲ and ▼ keys to change the TDS value. For example:

4. Press **ENT** to confirm and return to main menu.

Setting up the Salinity parameter

1. From 

press ENT,

then use ▲ and ▼ keys to select 

2. Press **ENT.**

3. Then use ▲ and ▼ keys to select either

PPt Unit	OR	PEr Unit

to measure in Parts Per Thousand as PPt or Percentage as PEr.

4. Press **ENT** to confirm and return to the main menu.

5. Save the changes as described on page 6.

-END OF PARAMETER SETUP-

STAGE 3: CALIBRATING THE PARAMETERS

Calibrating PH

1. In the measurement mode at | PH | press the **CAL** key.

2. Place the tester in the buffer solution. The bottom reading will show the correct buffer value.

3. When the reading has stabilized, for instance: 3.87 for a 4.01 buffer, press **ENT**.

4. To continue with another buffer calibration, simply remove tester and place in another buffer solution.

5. Press **ENT** again to confirm the buffer value when it has stabilized.

6. When calibration is done, press the **CAL** key to confirm.

Calibrating COND

1. At the display press the **CAL** key.

NOTE: In your set up for COND, the tester must be in AUTO CAL mode. **NOT** manual CAL.

2. Place the tester in the buffer solution.

3. Follow the same instructions as above for PH calibration – Points 3 to 6. Press **CAL** key to confirm.

For manual calibration, place tester in the buffer solution then do the following:

Press ▲ and ▼ keys to scroll to the calibration standard value

and press **ENT**. The tester will return to measurement mode.

Calibrating TDS

1. At the display press the **CAL** key.

2. Place the tester in the buffer solution.

3. Press ▲ and ▼ keys to scroll to the calibration standard value and press **ENT**. The tester will return to measurement mode.

Calibrating SALT

1. At the display press the **CAL** key.

2. Place the tester in the buffer solution.

3. Press ▲ and ▼ keys to scroll to the calibration standard value and press **ENT**. The tester will return to measurement mode.

END OF CALIBRATION SECTION

HOLD FUNCTION

To stop measurements and lock on to a reading, press the **HOLD** key. The tester will not change the last reading on the screen until the **HOLD** key is pressed again.

This function is useful when taking measurements in a dim environment. It allows you to hold the reading until you are able to move to a well-lit area.

MEASUREMENT

1. To start measuring, press the **ON/OFF** key.

2. Press **MODE/ ENT** until you get to your desired parameter.

3. Place tester in your sample and it will start measuring immediately.

Warranty

The waterproof testers are warranted to be free from manufacturing defects for 1 year and the electrode module is warranted for 6 months, unless otherwise stated. If repair, adjustment or replacement is necessary and has not been the result of abuse or misuse within the time period specified, please return the tester – freight prepaid – and correction will be made without charge. Out of warranty products will be repaired on a charge basis.

Return of Items

Authorization must be obtained from your distributor before returning items for any reason.

When applying for authorization, please include information regarding the reason the item(s) are to be returned.

Note: We reserve the right to make improvements in design, construction and appearance of products without notice. Prices are subject to change without notice.

For more information on Eutech Instruments'/ Oakton Instruments' products, contact your nearest distributor or visit our website listed below:

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