Series 4 Boat Meter Manual

Navigate the Menu

Set-Up Menu

Read/Accept

Mode/Escape

Contrast/Backlight

Power (On/Off)

Thank you for choosing the QP999 Portable Corrosion Meter. This guide will enable you to quickly set up and use the instrument. The QP999 has a Boat Hull mode and a Water REDOX mode.

Description
Series 4 instruments have a dynamic LCD display which guides the user through the measurement process. We hope there will be no need to refer to a manual once you have performed initial set up.
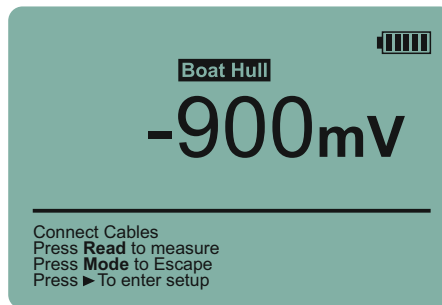
Battery Installation
Remove the battery cover by loosening the retaining cross head screw. Please note this screw has a retainer and will therefore remain with the cover to prevent loss. Once open unpack the 4 AA Batteries supplied and insert ensuring the polarity is correct for each battery. Replace the cover.
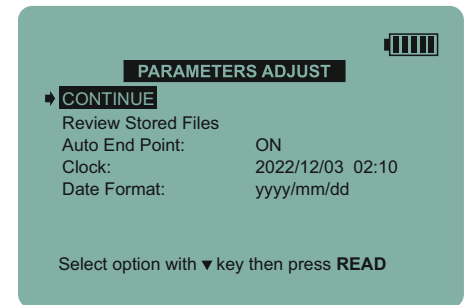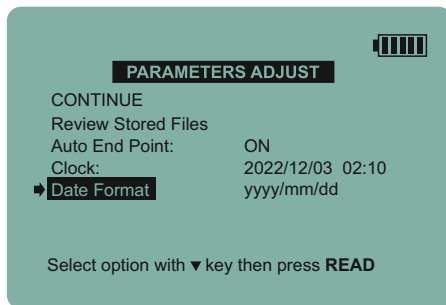
SETTING DATE & TIME

BOAT METER

v1.00 S/N40000

Switch the unit on using the power button.

Boat Hull

-900mV

Connect Cables
Press **Read** to measure
Press **Mode** to Escape
Press ► To enter setup

You will be taken to a screen that looks like this **BOAT HULL** mode

---

PARAMETERS ADJUST
➡ CONTINUE
Review Stored Files
Auto End Point: ON
Clock: 2022/12/03 02:10
Date Format: yyyy/mm/dd

Select option with ▼ key then press **READ**

Press the **right arrow** key to enter the PARAMETERS ADJUST SCREEN

PARAMETERS ADJUST
CONTINUE
Review Stored Files
Auto End Point: ON
Clock: 2022/12/03 02:10
➡ Date Format   yyyy/mm/dd

Select option with ▼ key then press **READ**

Scroll down to the **DATE FORMAT** option

PARAMETERS ADJUST
CONTINUE
Review Stored Files
Auto End Point: ON
Clock: 2022/12/03 02:10
➡ Date Format   dd/mm/yyyy

Select option with ▼ key then press **READ**
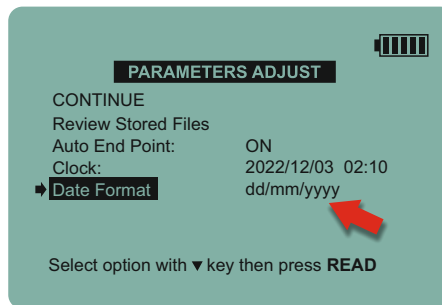
Press **READ** until you arrive at the desired format.

PARAMETERS ADJUST
CONTINUE
Review Stored Files
Auto End Point: ON
➡ Clock: 2022/12/03 02:10
Date Format: yyyy/mm/dd

Select option with ▼ key then press **READ**
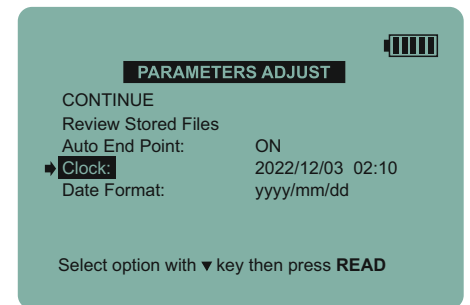
Scroll down to the **CLOCK** option using the **down arrow** key.

CLOCK
yyyy/mm/dd
Entry: 2022/12/03

1 2 3 4 5 6 7 8 9 0
Cancel   Space   Enter

To clear entry select **CANCEL**
Navigate with ▼ ► and select with **READ**
Select **Enter** to finish
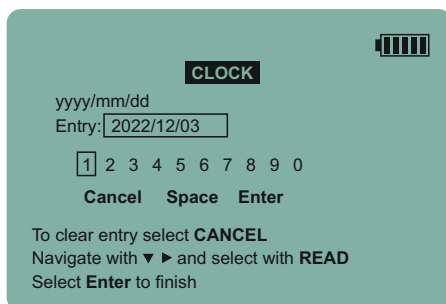
Press **READ** to enter the **CLOCK** screen above.

CLOCK
yyyy/mm/dd
Entry: 2022/12/03

1 2 3 4 5 6 7 8 9 0
Cancel   Space   Enter

To clear entry select **CANCEL**
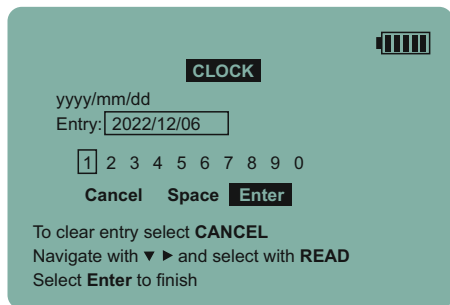Navigate with ▼ ► and select with **READ**
Select **Enter** to finish
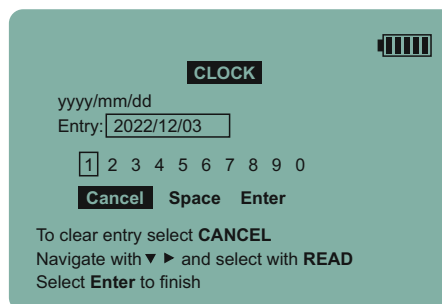
Select **CANCEL** using the down arrow key and press **READ** until the current **DATE** in the entry box is removed.

CLOCK
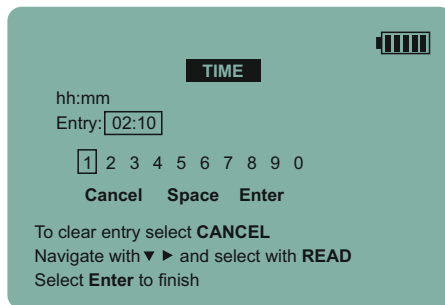yyyy/mm/dd
Entry:

1 2 3 4 5 6 7 8 9 0
Cancel   Space   Enter

To clear entry select **CANCEL**
Navigate with ▼ ► and select with **READ**
Select **Enter** to finish
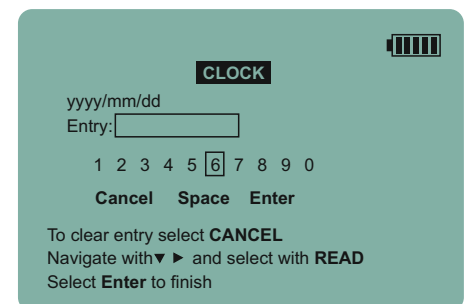
Select the current date digit by digit by selecting the correct number and pressing **READ.**

CLOCK

yyyy/mm/dd
Entry: [2022/12/06]

[1] 2 3 4 5 6 7 8 9 0
Cancel   Space   Enter

To clear entry select **CANCEL**
Navigate with ▼ ► and select with **READ**
Select **Enter** to finish

When the entry box contains the correct date select **ENTER** and press **READ**

TIME

hh:mm
Entry: [02:10]

[1] 2 3 4 5 6 7 8 9 0
Cancel   Space   Enter

To clear entry select **CANCEL**
Navigate with ▼ ► and select with **READ**
Select **Enter** to finish

You are now in the **TIME** screen. Repeat from **Diagram 8** above to select the correct time.

PARAMETERS ADJUST

CONTINUE
Review Stored Files
Auto End Point: ON
Clock: 2022/12/03 02:10
➡ Date Format   yyyy/mm/dd
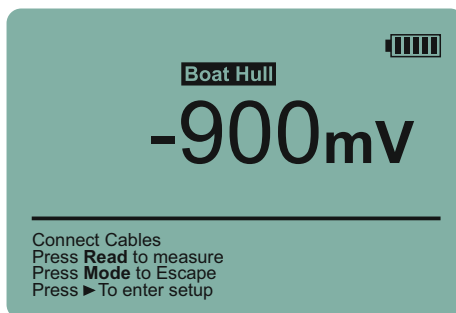
Select option with ▼ key then press **READ**
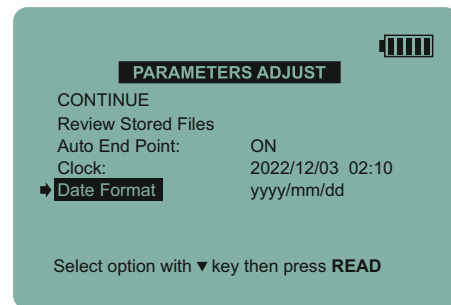
From the **PARAMETERS ADJUST** screen press **READ** to return to the Boat Hull Mode.

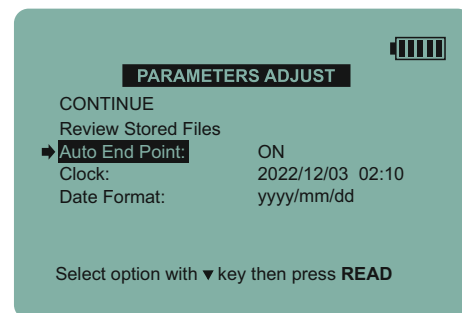# TAKING MEASUREMENTS - AUTO END POINT

Auto End Point will automatically give a result once the reading has stabilised instead of manually pressing **READ** to do so. Auto End Point should be switched on by default. However, you can switch it on/off by following the below instructions:

BOAT METER

v1.00 S/N40000

press **READ** to start taking the measurement.

Boat Hull

-900mV

Connect Cables
Press **Read** to measure
Press **Mode** to Escape
Press ►To enter setup

Press the right arrow key to enter the **PARAMETERS ADJUST SCREEN**

PARAMETERS ADJUST

CONTINUE
Review Stored Files
➡ Auto End Point: ON
Clock: 2022/12/03 02:10
Date Format: yyyy/mm/dd
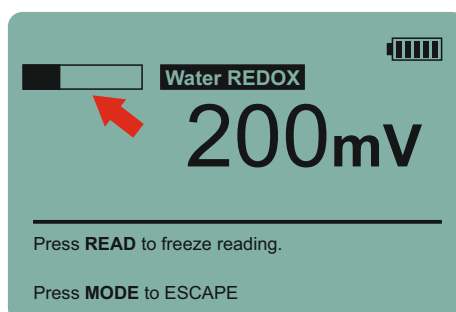
Select option with ▼ key then press **READ**

From the **PARAMETERS ADJUST** screen select Auto end Point Now press **READ** to switch on Auto End Point.
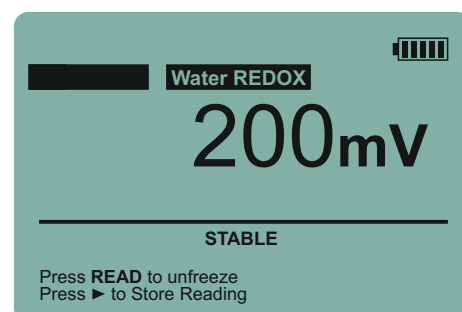
TAKING A READING

Whilst in either the **Boat Hull** or **Water REDOX** Mode, after ensuring that the cables are connected correctly, press **READ** to start taking the measurement.

Water REDOX

200mV

Connect Cables
Press **Read** to measure
Press **Mode** to Escape
Press ►To enter setup

press **READ** to start taking the measurement.

Water REDOX

200mV

Press **READ** to freeze reading.

Press **MODE** to ESCAPE
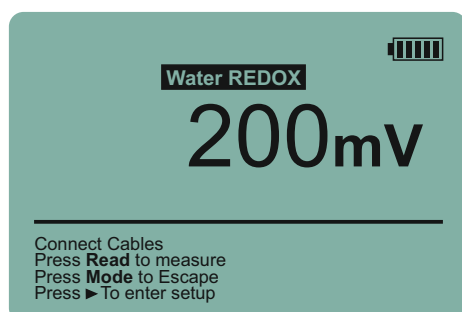
The **stability bar** will fill up and the reading will freeze once the measurement is stable.

Water REDOX

200mV

STABLE

Press **READ** to unfreeze
Press ► to Store Reading

If you wish to store the result you can press the **right arrow key** and it will be logged.

FREEZING A READING

If the reading is taking too long to stabilise in the **stability bar** you can press **READ** which will freeze the reading and allow you to store the data that way at that point.

PRINTING LOGGED DATA

The QP999 Portable Corrosion Meter has both a log and a print function. You can print the logged data directly to an external device when connected via the Mini USB output or straight to file.
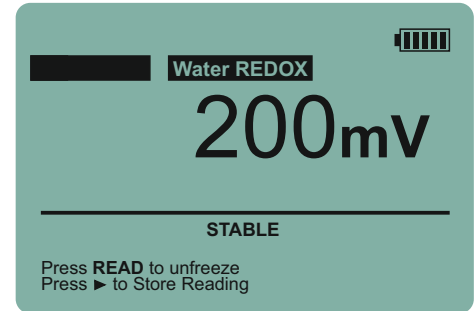
The Series 4 instruments have a substantial internal memory which can contain up to 64 sets of results/data.

Data can be stored in the internal memory in any mode after any reading has been taken. To ensure good data integrity it is recommended that you set up the instrument with the correct date & time. Please refer to section 1 of this manual. This information will be stored along with the sample readings.
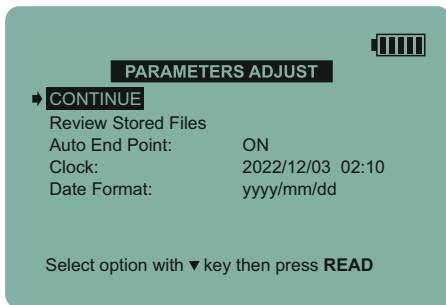
SAVING SAMPLE READINGS

Once you have measured a sample in any mode and the reading is frozen you will be offered the option to "Press **right arrow key** to print immediate". Press **right arrow key** to store the reading in the internal memory.
The file will be stored with the name "BOAT HULL_x" or "Wtr REDOX_x" (dependant on the mode used to log) where x is a sequential number that increases by 1 each time a result is recorded.

```
                                        ▐IIII▌
 �▌                      Water REDOX
                       200mV
                              _____
                                    STABLE
 Press READ to unfreeze
 Press ► to Store Reading
```

ACCESSING STORED FILES

```
                                    ▐IIII▌
        PARAMETERS ADJUST
 ➡CONTINUE
   Review Stored Files
   Auto End Point:      ON
   Clock:               2022/12/03  02:10
   Date Format:         yyyy/mm/dd

   Select option with ▼ key then press READ
```

```
                                    ▐IIII▌
        PARAMETERS ADJUST
   CONTINUE
 ➡Review Stored Files
   Auto End Point:      ON
   Clock:               2022/12/03  02:10
   Date Format:         yyyy/mm/dd

   Select option with ▼ key then press READ
```

```
                                    ▐IIII▌
             SELECT FILE
   4 files are stored
   1. BOAT HULL_1
   2. BOAT HULL_2
   3. BOAT HULL_3
 ➡ 4. BOAT HULL_4
   _____
   Select with ▼ and review with ►
   To PRINT file press READ
   To RETURN press MODE
```

Press **right arrow** after unfreezing the display. This takes you to the "**PARAMETERS ADJUST**" screen.
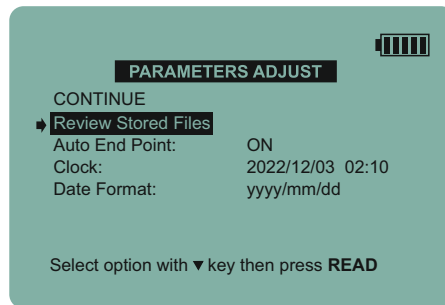
Select "Review Stored Files" and press **READ**
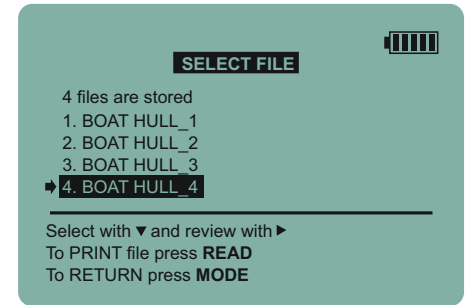
From the **PARAMETERS ADJUST** screen press **READ** to return to the Boat Hull **MODE**

The Series 4 Portable Meters have the facility to store Readings, Calibration data and Logged data in its internal memory filing system. To transfer this data directly into Excel for printing or further manipulation you will need to install the EDT data Wizard.
This is provided in the Series 4 Data Kit which comprises: -USB flash drive with the EDT data Wizard Software.

USING THE DATA WIZARD
1. Ensure you have the Data Wizard found on the USB drive installed
2. Create a blank Comma Separated Variable (CSV) file and save this in a suitable location
3. Launch the Data Wizard Application
4. Click 'Browse' and then select the CSV file generated in step 2
5. Connect the Meter to the PC using the USB cable provided with the Data Kit
6. Switch on the Meter and click 'Discover' – the meter should then be automatically found
7. Click 'Start Logging'
8. Now you need to browse to the desired file location using the steps previously outlined (on the meter)
9. Once hovering over the desired file, press READ
10. Once the data has finished sending, click 'Stop Logging'
11. Close the Data Wizard and then open the CSV file to see the data

TROUBLESHOOTING
The QP999 will automatically diagnose and indicate errors or issues on the display. Ensure you have sufficient battery power. There is a battery life indicator in the top right of the display. If there are no solid sections, the battery will need replacing. To save battery life reduce the screen brightness and contrast by selecting the "**Light bulb**" button.

For Help and Technical Support look at our support pages on www.edt.co.uk or contact us: info@edt.co.uk