

For: Mettler Toledo FiveEasy Plus FP20 pH Meter
Serial Configuration (Continuous Instance Use-Case)

Applicable Asset Models

- ✓ FiveEasy Plus FP20

Package Contents

- ✓ Element-D
- ✓ Power Supply
- ✓ Mounting Plate
- ✓ RS-232 to USB connector cable

Note: You may receive multiple types of cables if you are connecting Element-D's to different types of assets.

Safety Information



Review and abide by the safety information found in the Element-D and Mettler Toledo FiveEasy Plus FP20 pH Meter user manuals. Tidy connection cable to prevent tripping hazards.

Prerequisites

The Element-D only captures data for operational use. The capture of calibration data is not supported. Unplug the Element-D from the pH meter during the calibration process.

Installation Instructions

Receiving the Shipment

1. If this is your first time setting up the Elemental Machines system, you will receive an email for your dashboard account verification. Save this email for when the devices arrive.
2. When devices are shipped, they will be added to your Elemental Insights™ Dashboard with default names. When you first log in you will see all your devices with a 'disconnected' status.
3. When devices arrive, carefully remove the contents from the packaging. If any of the contents look damaged, please send a picture to help@elementalmachines.com.
4. Confirm the Element-D's in your package are labeled with the assets to which they are to connect. If the labels do not match the intended assets for connection, please contact help@elementalmachines.com.

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Element-D Initial Power-up

5. Plug the Element-D in using the provided power supply.
6. If the device has not been preloaded with your company's Wi-Fi, complete Wi-Fi Connection following instructions in the provided 771-00010 Wi-Fi Connection Guide - Gateway GW2/3, Element-C/D.
 - a. 771-00010 is included with your Element-D as a printed copy. Digital versions of this are available in the Support section of the Elemental Insights™ Dashboard.

Attaching Connection Cable to Asset

7. Locate the RS-232 data port on the asset (shown in Figure 1) to which the Element-D will connect.



Figure 1 Data port on asset

8. Plug the RS-232 end of the Connection Cable (Figure 2) into the data port on the pH meter.



Figure 2 Connector cable USB end (left) and RS-232 end (right)

Configuring Asset Menus

9. To receive automatic readings from the pH meter, if the print icon is showing (circled below) simultaneously hold down the **STO/RCL** and **Mode/Setup** buttons until the data transfer icon disappears.



Figure 3 pH meter print icon (circled in blue) and menu buttons

Attaching Connection Cable to Element

10. Plug the other end of the Connection Cable into the data port on the Element-D. This will be in the USB port which are any of the four on the left as pictured in Figure 4.



Figure 4 Data ports on Element-D

Positioning the Element-D

11. Determine where the Element-D should be placed to allow for power access and a tidy connection cable.
12. Securely position the Element-D in the chosen location. The Element-D has magnets which make it easily mountable to magnetic surfaces.
 - a. Note: If applicable, an adhesive metal mounting plate available from EM may be used.

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Finalization

13. To send a pH measurement to the Elemental Insights™ Dashboard, press **Read**.
14. Make sure the end point format is Manual by waiting until the \sqrt{M} icon (see Figure 5) appears on the screen then press **Read** again.



Figure 5 Icon circled in blue

15. Once configured, press the **Read** button to begin receiving measurements at one second intervals. To stop measurements, press the **Read** button again.
16. Confirm that the value appears on the dashboard.
17. If the dashboard does not display any value, check cable connection, menu settings and power cycle the Element-D. Contact help@elementalmachines.com if problem persists.
18. Contact any third-party vendor for next steps regarding communication to the external platform (if applicable).