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TrolMaster

TrolMaster NFS-3 Sensor Board



Product Information

Specifications

- **Product:** Sensor Board (AMP-3)
- **Compatibility:** Aqua-X Irrigation Control System
- **Package Dimensions:** 160mm (L) x 86mm (W) x 86mm (H)

Product Usage Instructions

Installation

Mount the Sensor Board near the pH Sensor and EC/Temp Sensor. Use two screws to mount the Sensor Board on the wall.

Operation Instructions

- Use a male-to-male signal cable to connect the Sensor Board to the Controller. Plug the RJ12 cable connector of the signal cable into the Nutrient terminal of the Aqua-X Plus / Pro Controller or the Sensor terminal of the Tent-X Controller.
- Then plug the opposite RJ12 cable connector into the SYSTEM terminal (middle) on the bottom of the Sensor board.
- A Splitter Hub (SPH-1) is required for multiple units' connection.

Connecting to pH Sensor

- Plug the BNC connector of the pH Sensor into the pH SENSOR port (BNC Terminal) at the bottom of the SENSOR BOARD. Rotate the BNC sleeve until the connector is tight.

Connecting to EC/Temp Sensor

- Plug the mini-DIN connector of the EC/Temp Sensor into the EC/TEMP SENSOR port (mini-DIN Terminal) at the bottom of the SENSOR BOARD.

Sensor Reset on AMP-3

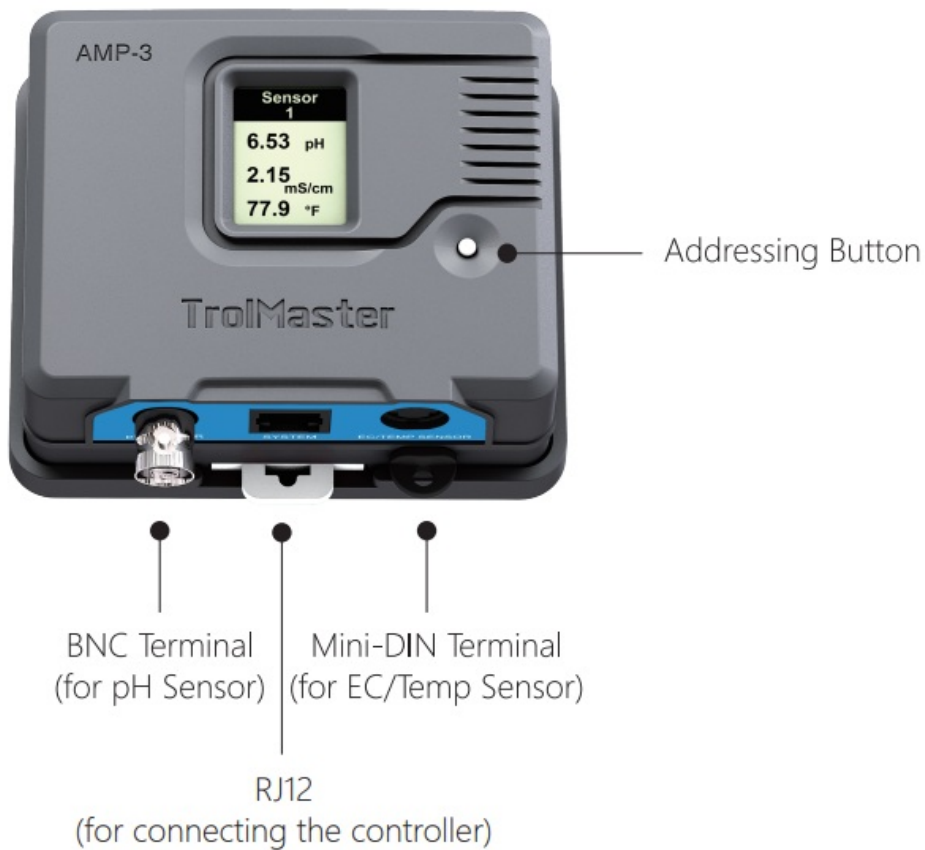
- Clear previous EC & Temp, and pH calibration data by resetting the AMP-3. Press and hold the addressing button for 5 seconds to reset. Press again to confirm, and you will see a success message; otherwise, it will return to the main interface after 5 seconds.

OVERVIEW

- Thank you for purchasing our AMP-3 Sensor Board.
- The AMP-3 Sensor Board is compatible with the Aqua-X Plus (NFS-3) / Aqua-X Pro (NFS-2) / Tent-X (TCS-1) Control System.
- This unit acts as a bridge between the sensors (pH Sensor & EC/Temp Sensor) and the Controller. It is connected to the main controller with a standard RJ12 cable.
- Multiple units can be connected into one system for multiple monitoring applications. The pH level, EC level, and water temperature will be shown on its LCD screen and the controller's screen.

FEATURES

- LCD Display for onsite monitoring
- RJ12 connection for flexible installation,
- Addressing the key for multiple units application



INSTALLATION

- Mount the Sensor Board near the pH Sensor and EC/Temp Sensor. Use two screws to mount the Sensor Board on the wall.



OPERATION INSTRUCTIONS

1. Connecting to the controller

- Use a male-to-male signal cable to connect the Sensor Board to the Controller. Plug the RJ12 cable connector of the signal cable into the Nutrient terminal of the Aqua-X Plus / Pro Controller. or the Sensor terminal of the Tent-X Controller.

- Then plug the opposite RJ12 cable connector into the SYSTEM terminal (middle) on the bottom of the Sensor board.
- A Splitter Hub (SPH-1) is required for multiple units' connection.

2. Connecting to pH Sensor

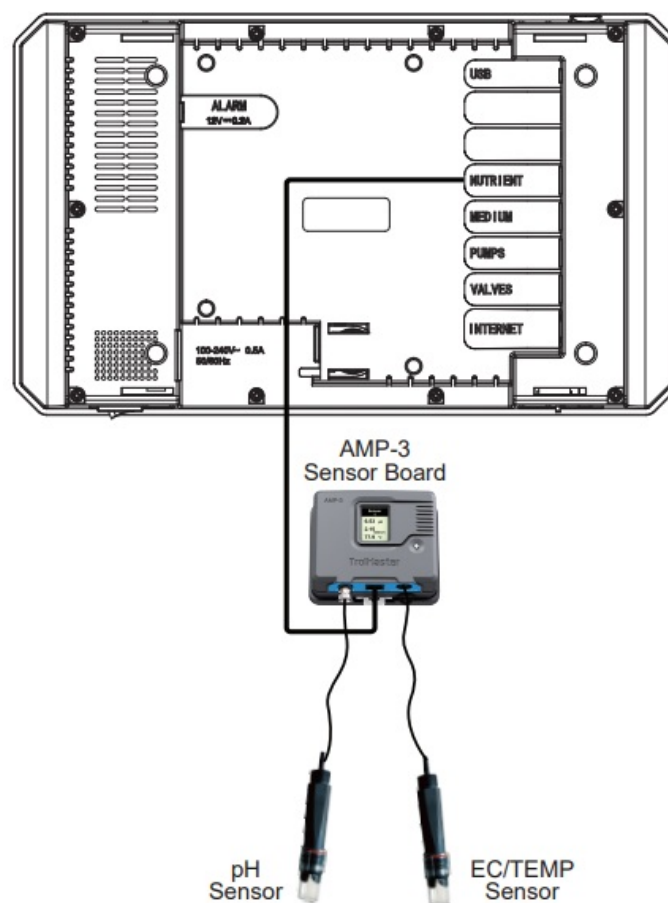
- Plug the BNC connector of the pH Sensor into the pH SENSOR port (BNC Terminal) at the bottom of the SENSOR BOARD. Rotate the BNC sleeve until the connector is tight.

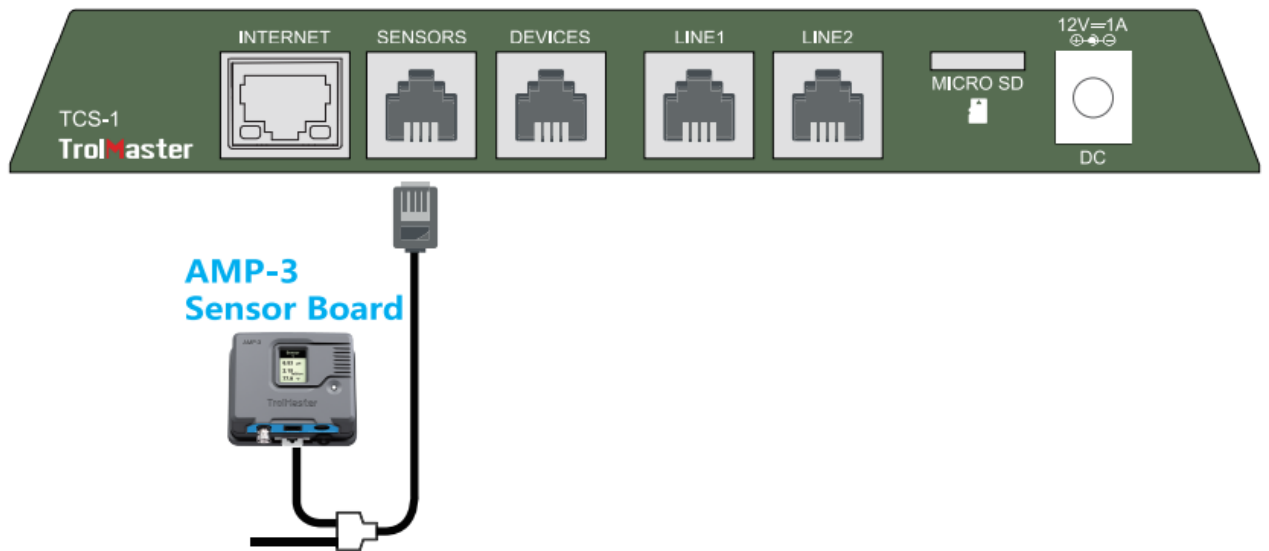
3. Connecting to EC/temp Sensor

- Plug the mini-DLN connector of the EC/Temp Sensor into the EC/TEMP SENSOR port (mini-DLN Terminal) at the bottom of the SENSOR BOARD.

4. Sensor Reset on AMP-3

- Clear previous EC & Temp, and pH calibration data by resetting the AMP-3. Press and hold the addressing button for 5 seconds to reset.
- Press again to confirm and you will see a “success” message; or else it will return to the main interface after 5 seconds.





SPECIFICATIONS

Working Environments	Temperature 32-122°F Humidity≤90%
Package Dimensions	160mm(L) x 86mm(W) x 86mm(H)



WARNING

- DO NOT allow the AMP-3 Dry Contact Board to be exposed to water or excessive heat.
- DO NOT open or attempt to repair or disassemble the controller, as there are no user-serviceable parts inside.

Warranty

- Opening the controller will void the warranty.
- If the surface of the AMP-3 Dry Contact Board is dirty, wipe it with a dry towel.
- The AMP-3 Dry Contact Board operates under natural ventilation conditions.


Customer Service

- For any issues or concerns with our products, DO NOT return them to the store.
- Please contact our tech support department at support@trolmaster.com or call 8774209876.
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Frequently Asked Questions


- **Q: Can I open and repair the AMP-3 Dry Contact Board if needed?**
 - **A:** No, do not open or attempt to repair or disassemble the controller, as there are no user-serviceable parts inside. Opening the controller will void the warranty.
- **Q: How should I clean the surface of the AMP-3 Dry Contact Board?**
 - **A:** If the surface is dirty, wipe it with a dry towel. The AMP-3 Dry Contact Board operates under natural ventilation conditions.


Documents / Resources

	TrolMaster NFS-3 Sensor Board [pdf] User Manual NFS-3, NFS-2, TCS-1, NFS-3 Sensor Board, NFS-3, Sensor Board
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References

- [User Manual](#)

 NFS-2, NFS-3, NFS-3 Sensor Board, Sensor Board, TCS-1,

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[TrolMaster HS-1 Hydro-X Control System User Manual](#)

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