Sensor Board (AMP-3)
User Manual

OVERVIEW

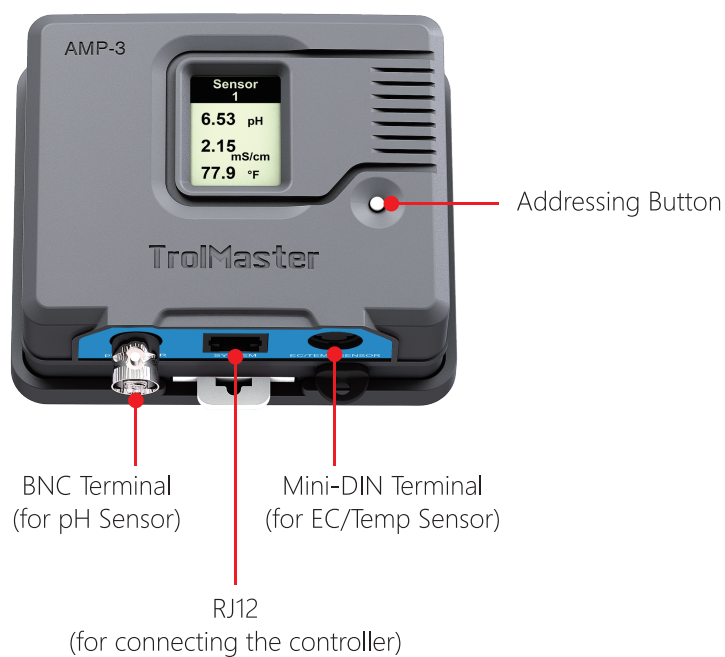Thank you for purchasing our AMP-3 Sensor Board.

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 application. The pH level, EC level and water temperature will be shown on its LCD screen and the controller's screen.

PACKAGE CONTENTS

- 1x Sensor Board (AMP-3)
- 1x 16ft RJ12 Cable
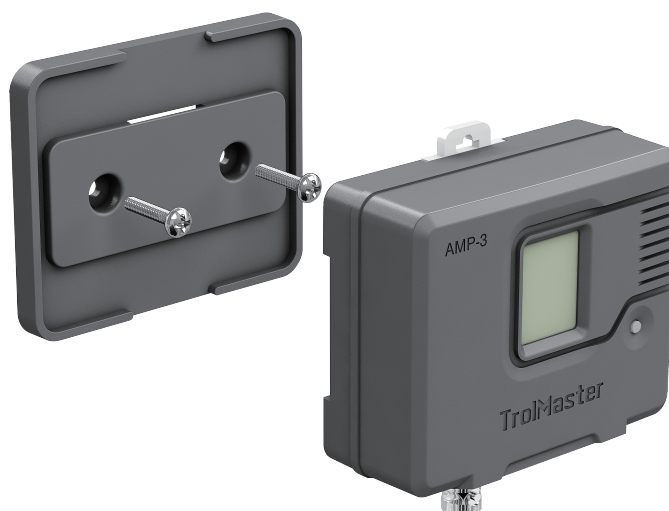- 1x 4ft RJ12 Cable
- 1x T-shaped Splitter

FEATURES

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

Addressing Button

BNC Terminal
(for pH Sensor)

Mini-DIN Terminal
(for EC/Temp Sensor)

RJ12
(for connecting the controller)

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.
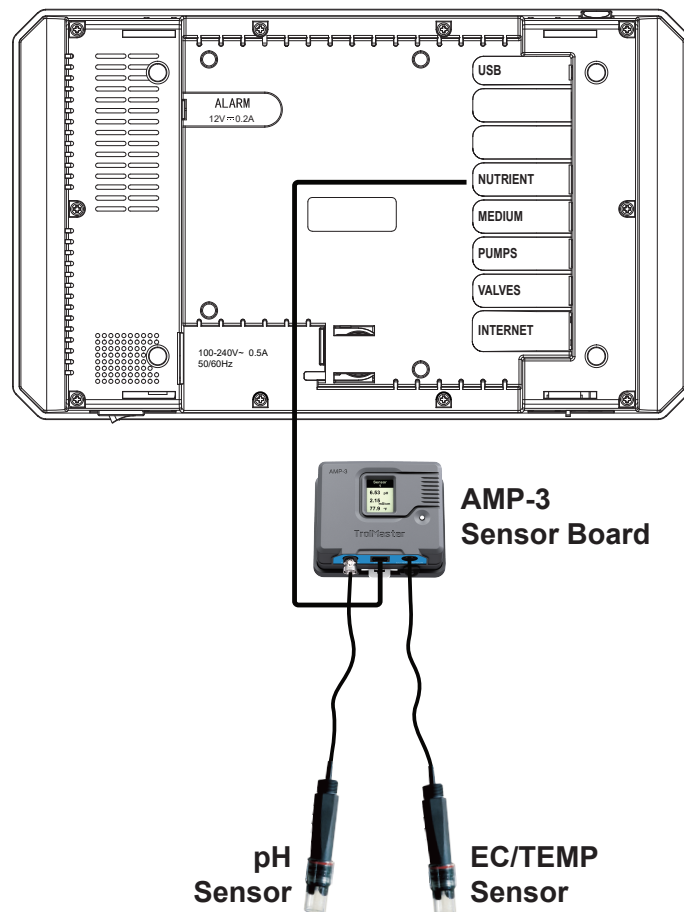
2. Connecting to pH Sensor

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.
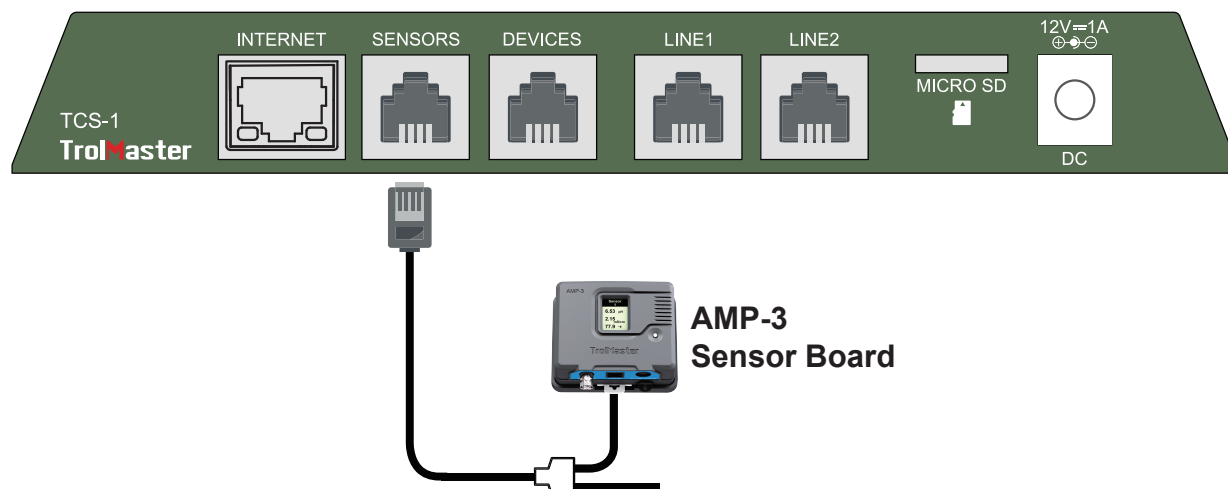
3. Connecting to EC/Temp Sensor

Plug the mini-DIN connector of the EC/Temp Sensor into the EC/TEMP SENSOR port (mini-DIN Terminal) at the bottom of SENSOR BOARD.
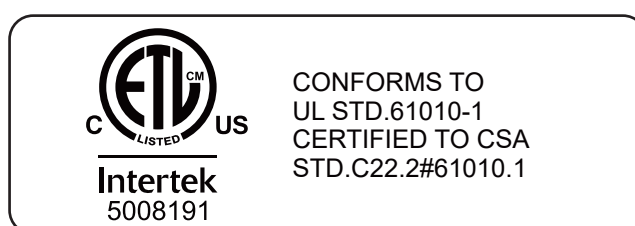
4. Sensor Reset on AMP-3

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.

**AMP-3
Sensor Board**

SPECIFICATIONS

Package Dimensions	160mm(L) x 86mm(W) x 86mm(H)
Ambient Temperature	32-122°F (0-50°C)
Relative Humidity	≤90%RH

CONFORMS TO
UL STD.61010-1
CERTIFIED TO CSA
STD.C22.2#61010.1

⚠ 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. Opening the controller will void the warranty.

If the surface of AMP-3 Dry Contact Board is dirty, wipe itwith a dry towel. The AMP-3 Dry Contact Board operatesunder natural ventilation conditions.

⚠️ **AVERTISSEMENT: NE PAS** exposer la carte de contact sec AMP-3 à l'eau ou à une chaleur excessive. NE PAS ouvrir ou tenter de réparer ou de démonter le contróleur, car il ne contient aucune pièce réparable par l'utilisateur. L'ouverture du contrôleur annulera la garantie.

Si la surface de la carte de contact sec AMP-3 est sale, essuyez-la avec une serviette sèche. La carte de contact sec AMP-3 fonctionne dans des conditions de ventilation naturelle.

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 **877-420-9876**.

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