This device requires a downloaded phone app in order to control the growing environment. Search Titan Controls Hyperion on:

- Android app on Google play
- Download on the App Store

www.titancontrols.net
Hyperion® Data Transfer Module

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**Warnings**

- Read all instructions before operating controller.
- Do not put your controller in an area where it can get wet or sprayed.
- Mount your controller securely to the wall using hardware provided.
- When using “bug bombs” in area, cover controller completely to avoid corrosion.
- There are no serviceable parts in controller. Do not attempt to repair the unit.
- Breaking “warranty” seal will void your warranty.
- Do not put paperclips, tools, etc. into unit. Possible electrocution may occur.
- Plug controller into surge protector to avoid potential damage to the unit.
- Make sure to verify your power source prior to plugging controller into outlet.
- Check that all equipment that will be activated by this controller is the proper voltage.
- This controller is designed for inside use only.
- Avoid placing the controller near heat generating sources.
- Use caution when operating controller in extremely humid environments.
- Do not use controller for purposes other than the unit was designed to function.
- Use controller within defined environmental specifications.
- Ask your Dealer for tips and techniques regarding the use of this controller.
- Be conscientious when disposing of any products.
- Enjoy your Titan Controls® environmental controller for years to come!

**Hyperion® Data Transfer Module Overview**

The Hyperion® Data Transfer Module (HDTM) is a device that connects wirelessly to the Hyperion® controller. It acts as a gateway to allow the Hyperion’s settings to be changed remotely, provides current readings of the Hyperion’s environment, provides up to date Hyperion® alarm codes, and keeps log data of the Hyperion’s sensor readings.

The HDTM is equipped with two tricolor LEDs that display the module’s status and two buttons that are used during the initial set up (refer to Figure 1). The initial set up of the HDTM can take less than 30 seconds and be achieved by pressing two buttons.

The HDTM requires 12 VDC to be provided at connector located on the bottom of the device.
Instructions for Operation

Default Settings and Behavior

When power is applied to a new HDTM out of the box, the Hyperion® Network LED will flash yellow rapidly; this indicates that it is unable to communicate with a Hyperion® controller. The Wi-Fi LED will flash yellow once to indicate it is attempting to connect to an Access Point (AP). This behavior will continue until the HDTM has been set up by following the Initial Setup Procedures (Page 4) outlined later in this document. For more information regarding the HDTM's LED codes, refer to the normal Wi-Fi LED Behavior section (Table 1) of this document.

Once the HDTM has been set up, it will begin gathering information about the Hyperion® Controller. By default, the logging feature is disabled and no log data will be saved until the logging feature is enabled. Even with the logging feature disabled, the HDTM will provide current sensor readings, alarm codes and control settings every 15 minutes or when an alarm state changes: all of this information can be viewed and settings can be changed with the use of the mobile app.

LED Behavior

The HDTM has two LEDs that indicate the device's current status. The LED on the left reflects the current Wi-Fi status of the HDTM; the LED on the right indicates the current connection status between the HDTM and the Hyperion® controller.

Wi-Fi LED

The Wi-Fi LED is used to indicate the current status of the module's Wi-Fi communication. Table 1 can be used to determine the current status of the Wi-Fi module: during normal operation the Wi-Fi LED will change between off and flashing green, yellow, or red occasionally.

Hyperion® Network LED

The Hyperion® network LED will flash yellow continuously when it is unable to connect to the Hyperion® controller. During normal operation the LED will flash green twice.

<table>
<thead>
<tr>
<th>LED BEHAVIOR</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>HDTM is idle: connected to the AP and has internet access.</td>
</tr>
<tr>
<td>1 Green flash</td>
<td>HDTM successfully retrieved data from server.</td>
</tr>
<tr>
<td>1 Red flash</td>
<td>HDTM failed to retrieve data from server.</td>
</tr>
<tr>
<td>2 Green flashes</td>
<td>HDTM successfully placed data on server.</td>
</tr>
<tr>
<td>2 Red flashes</td>
<td>HDTM failed to place data on server.</td>
</tr>
<tr>
<td>1 Yellow flash</td>
<td>HDTM setting Wi-Fi parameters: updating parameters, gathering information about wireless connection, or attempting to associate with an access point (AP).</td>
</tr>
<tr>
<td>2 Yellow flashes</td>
<td>HDTM associated with access point (AP), checking for internet connectivity.</td>
</tr>
</tbody>
</table>

Table 1
### WI-FI SETUP BEHAVIOR

<table>
<thead>
<tr>
<th>LED BEHAVIOR</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid Yellow</td>
<td>HDTM preparing for Wi-Fi Protected Setup (WPS): this is the default method for setting up a connection to an AP.</td>
</tr>
<tr>
<td>1 Red Flash</td>
<td>HDTM is running WPS: attempting to find AP in WPS mode and negotiating Service Set Identifier (SSID) and password.</td>
</tr>
<tr>
<td>Continuous Red Blinking</td>
<td>HDTM is acting as an AP and serving up a configuration web page.</td>
</tr>
</tbody>
</table>

**Table 2**

### Initial Setup Procedure

There are two steps to setting up the HDTM for the first time. Step 1 is to link the device to the desired Hyperion® Controller; step 2 is to configuring the Wi-Fi feature by entering the AP’s SSID and password. Follow the procedure below to complete the initial set up:

**Step 1: Link HDTM to Hyperion® Controller**

Before following the step below, be sure no other Hyperion® controllers are running nearby. If there are other Hyperion® controllers in the vicinity, simply power down the controller’s display module until the following steps are complete.

1. Move the HDTM in close proximity (within 10 feet) to the Hyperion® controller’s display module.
2. Press and hold the Hyperion® Network Button located on the right side of the device (refer to Figure 1).
3. Release the button when the Hyperion® Network LED stops flashing.

The Hyperion® Network LED may briefly flash yellow while it is setting up communication with the Hyperion® controller. After this is complete, the Hyperion® Network LED will flash twice green to indicate it is connected and communicating with the Hyperion® controller.

**Note:** It will be necessary to perform this procedure each time the Hyperion Wireless Control network between the sensor and display module is rebuilt.

**Step 2: Setting Up the Wi-Fi Connection**

The HDTM should be linked to the Hyperion® Controller before connecting it to a Wi-Fi network. The HDTM cannot set up a Wi-Fi connection while it is in the process of attempting to link up with the Hyperion® controller. It is best practice to complete Step 1 before attempting Step 2 of the initialization process.

To connect the HDTM to a wireless network it must have the networks SSID and password; this can be done two different ways. By default, the HDTM uses Wi-Fi Protected Setup (see Method 1: WPS) to set up a connection to an AP; however, it can also launch a configuration web server (see Method 2: Configuration Web Server) that can be used to enter the SSID and password. WPS is a simple and fast way to set up the Wi-Fi connection.

**Method 1: WPS**

This method requires a wireless router with the WPS feature. The process of enabling the WPS feature on a router is dependent on router manufacturer; however, it is usually done by simply pressing a button labeled WPS. Refer to the router’s instruction manual if more information is needed.
1. Move the HDTM in range (within approximately 5 feet for best results) of the Wi-Fi signal.
2. Press the WPS button on the Wi-Fi router. Refer to the router’s instruction manual for more information if necessary.
3. Press and hold the HDTM’s Wi-Fi Setup Button until the Wi-Fi LED becomes solid yellow.
4. Release the button and allow the router and HDTM to set up the Wi-Fi connection. The LED will begin to flash red once every few seconds while the set up is being performed.

Upon successful set up of the Wi-Fi connection, the LED will turn on solid green for 5 seconds. If the set up is not successful, the LED will turn on solid red for 5 seconds; if this occurs, it will be necessary to repeat the procedure above.

Method 2: Configuration Web Server

This method of setting up the Wi-Fi connection can be used if the WPS feature is not available on the wireless router.

1. Move the HDTM in range of the desired Wi-Fi signal.
2. Press and hold the HDTM’s Wi-Fi Setup Button until the Wi-Fi LED turns on solid yellow.
3. After a few seconds, momentarily press the HDTM’s Wi-Fi Setup Button again: the Wi-Fi LED will begin to flash red rapidly. The HDTM is now acting as an access point and serving up a configuration web page that will be used to enter the SSID and password required for connection to the desired wireless network.
4. On a computer or mobile device, navigate to an area where you can view the available Wi-Fi signals. See Figure 2. Figure 2 shows an example of this with a PC running Windows 7.
5. Connect to the wireless network named WiFly-EXZ-xx (see Figure 2: the last two characters shown as ‘xx’ will change with every device): no password is necessary. If no wireless connection with the name shown above is available, have the device rescan for available wireless networks until found.
6. If your smart phone has a feature called ‘Smart network switch’, and this feature switched ‘on’, the device will connect to a mobile network automatically if the Wi-Fi connection is unstable. The user must turn off the ‘Smart network switch’ feature for this setup to work properly.

Note: Some devices may say the connection is unstable or that the connection does not have internet access: this is normal.

7. Once connected to the correct wireless network; use the device’s web browser, type: http://config to navigate to the home page of the configuration web server (refer to Figure 3).
8. Enter the SSID of the desired wireless network the HDTM will connect to in the “Access Point SSID” location.
9. Enter the password of the wireless network in the “Passphrase” location.
10. Click on the “Save & Reboot” button at the bottom of the page.
1. A pop-up dialog box will appear on the screen and ask, “Are you sure you want to Exit this Web Configuration App?” Click the OK button to complete the process.

The HDTM will then save the settings, reboot, and attempt to connect within one (1) minute to the wireless network entered.

![Figure 3](image)

### Warranty Information

- Titan Controls® warrants the original purchase of this product against defects in material and workmanship under normal use for three (3) years from the date of purchase.

- During the warranty period, Titan Controls® will, at our option, and without charge, repair or replace this product if the controller or any of its components fail or malfunction.

- All returns or repairs must be accompanied by a Return Merchandise Authorization (RMA) number prior to any service of the product.

- This warranty is expressly in lieu of all other warranties, expressed or implied, including the warranties of merchantability and fitness for use and of all other obligations or liabilities on the part of the seller.

- This warranty shall not apply to this product or any part thereof which had been damaged by accident, abuse, misuse, modification, negligence, alteration or misapplication.

- Controllers with serial numbers or date tags that have been removed, altered or obliterated; broken seals or that show evidence of tampering; mismatched board serial numbers or nonconforming parts, are excluded from coverage.

- Titan Controls® makes no warranty whatsoever in respect to accessories or parts not supplied by Titan Controls®.

- Monetary refunds of the warranty will not be given.

- The Buyer assumes all responsibility regarding the use & installation of this controller.

- All warranty service is provided through the factory or an authorized service representative.

- This warranty shall apply only to the United States, including Alaska, Hawaii, territories of the United States and Canada.

- Defective controllers need to be returned with the “proof of purchase/receipt”.

- For additional warranty information, contact your Dealer, or a Titan Controls® Technical Service Representative at 1-888-808-4826. Our normal business hours are Monday – Friday, 8 a.m. to 5 p.m. Pacific Standard Time. We are closed most major holidays.

- NOTE: Titan Controls® is a manufacturer of environmental controls. All sales offerings to the public are done through a nationwide group of Dealers. No sales offerings will be made directly to the general public.
Service and Repair Program

• For all service and repairs please contact one of our Technical Service Representatives for a Return Merchandise Authorization (RMA) number.
• All factory service & repairs will be completed within 48 hours of receipt of controller and after authorization by customer for repairs.
• Titan Controls® will, at its discretion, repair or replace the controller.
• Factory calibration services are available for all Titan Controls®. Returning Units: Please contact your retail store for returns.

WARRANTY SERVICE: Please read warranty information first

If after reviewing the troubleshooting tips the unit will still not work, you should return it to the Dealer where you purchased it. They will be able to further evaluate the unit and test its various components and quite possibly will be able to identify and/or fix any problems. If the Dealer is unable to fix the unit, they will return it to us for factory repair.

If there are no Dealers in your area, you may contact us directly for technical support. If we cannot help you resolve the problem over the phone, we will issue you a RMA # (return merchandise authorization) authorizing you to return the unit to us for factory reconditioning (if the unit is under warranty). Contact the number below for a RMA and shipping address. Complete the form below and include it with your unit. Also please write the RMA # on the outside of the box.

Please package the unit in its original packaging. If it is damaged in shipment we cannot be responsible.

Once we receive the unit back, we will repair it within 48 hours (business) and return it to you freight prepaid via UPS ground shipment.

Include the following if returning directly to Titan Controls®

• Proof of purchase   • This completed form   • RMA # on the outside of the box

Return Merchandise Authorization Number (Required)
______________________________

Company Name: ____________________________________________________________________________________

Contact Name: _____________________________________________________________________________________

Address: __________________________________________________________________________________________
____________________________________________________________________________________________________

Phone #: ___________________________________________________________________________________________

Email address: _______________________________________________________________________________

What is the nature of the problem? ________________________________________________________________
_____________________________________________________________________________________________
_____________________________________________________________________________________________
_____________________________________________________________________________________________

Send to your nearest location – shipping address will be given when the RMA # is issued:

www.titancontrols.net
For technical assistance call us at 1-888-80-Titan or 1-888-808-4826.