

TITAN™

TALI™ MC

3-IN-1 VPD SENSOR

Product #HGC702000

Instruction Manual



ATTENTION INSTALLING PERSONNEL

Prior to installation, thoroughly familiarize yourself with this Installation Manual.

Observe all safety warnings. During installation or repair, caution is to be observed.

It is your responsibility to install the product safely and to educate the customer on its safe use.



RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION.
CE SYMBOLE DÉNOTE UNE MESURE DE PRÉCAUTION.



HAWTHORNE™

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Tali™ 3-in-1 VPD Sensor – Overview

Thank you for purchasing the Titan Controls™ Tali™ 3-in-1 VPD sensor.

Before use, please check if the HGC702000-VPD sensor is in good condition. We recommend that you read the HGC702000-VPD manual carefully before installation.

This sensor is designed to monitor the temperature, humidity and air pressure in your growing environment. From these readings, the sensor will be able to calculate your VPD (vapor pressure deficit).


Understanding the VPD level in your room will help you to optimize your plant's growth. In the process of growing, your plant absorbs water, nutrients, and carbon dioxide from the atmosphere through transpiration. If the transpiration is too strong, the water absorption rate of the root system will not keep up with the evaporation rate and the plant will lose water and wilt. On the other hand, too little water evaporation will cause the soil moisture to be too high, which will not allow oxygen to circulate. This will cause the roots to be blocked, which results in reduced nutrient and carbon dioxide intake. Keep the plant's transpiration within a good range to get the best growth. For the procedures of planting, cutting, grafting, and transplantation, maintaining excellent transpiration is the key to maintaining a healthy plant.



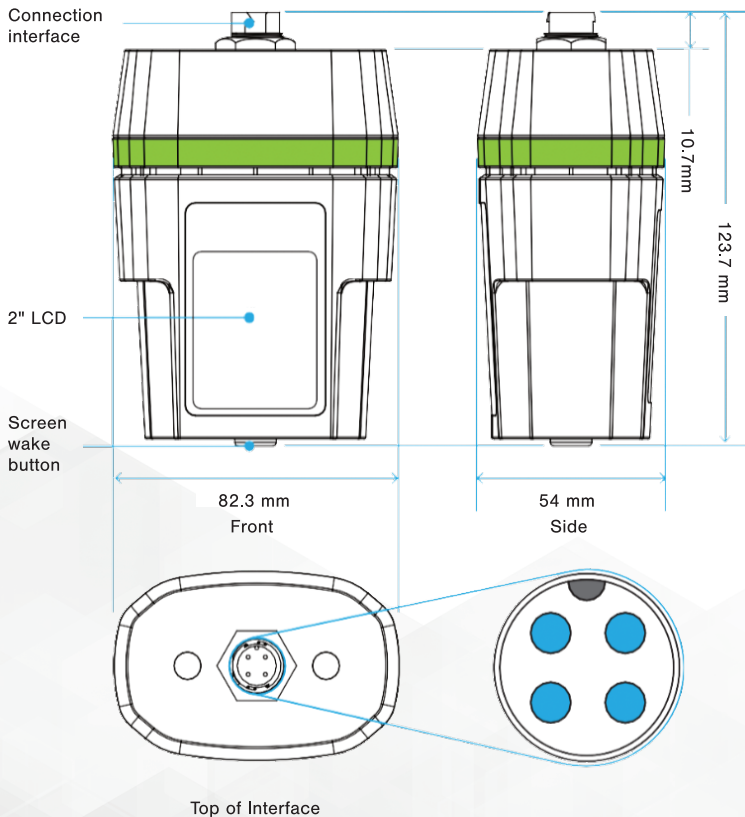
WARNING: Misuse or improper protection installation may damage the sensor and may invalidate the manufacturer's warranty. To integrate the Titan Controls™ Tali™ VPD sensor into your system, please follow the recommended installation instructions and be equipped with appropriate protection devices to protect the sensor from damage. If installing a sensor in a lightning-prone area with a grounded data logger, please refer to the application note Lightning Impulse and Grounding Practices.

AVERTISSEMENT : L'utilisation non conforme ou l'installation inadéquate de protections peut endommager le capteur et peut annuler la garantie du fabricant. Pour intégrer le Capteur DH Tali™ Titan Controls™ à votre système, veuillez suivre les consignes d'installation recommandées et utiliser les appareils de protection appropriés afin de protéger le capteur de tout dommage. Si le capteur est installé dans une zone sujette à la foudre avec un enregistreur de données avec mise à la terre, veuillez vous référer à la note d'application « Choc de foudre et application des mises à la terre.

Installation

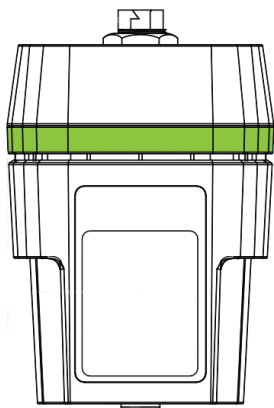
1. Install sensor(s) into desired positions following the recommended method (see installation method)
2. Once the sensor(s) has been put into position, connect the sensor cable to the controller (see connecting to EL3)
3. After your sensor(s) have been connected to the EL3, you will be able to locate them on the "Sensor List" screen
 - A. All sensors will default to the "Zone A" grouping. This can be changed by selecting a sensor and tapping on the  icon. From here you can switch between "Zone A" and "Zone B"
 - B. You can also select which sensor you want to be the "default" sensor that is shown on the home screen, by tapping on the sensor card and check "Home page display"

Product Appearance

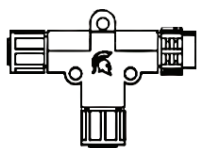


In Box

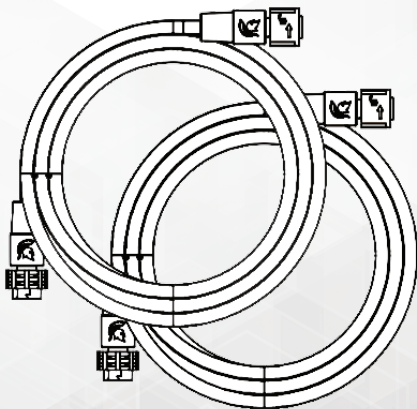
VPD Sensor



T-connector



2X Cables



Connection Interface



Description of material and size			
Cover material	PC		
Cover sheath	PVC	Cable inner core	Oxygen-free copper
Dimension	83mm L x 55mm W x 122mm H		

Product Parameter

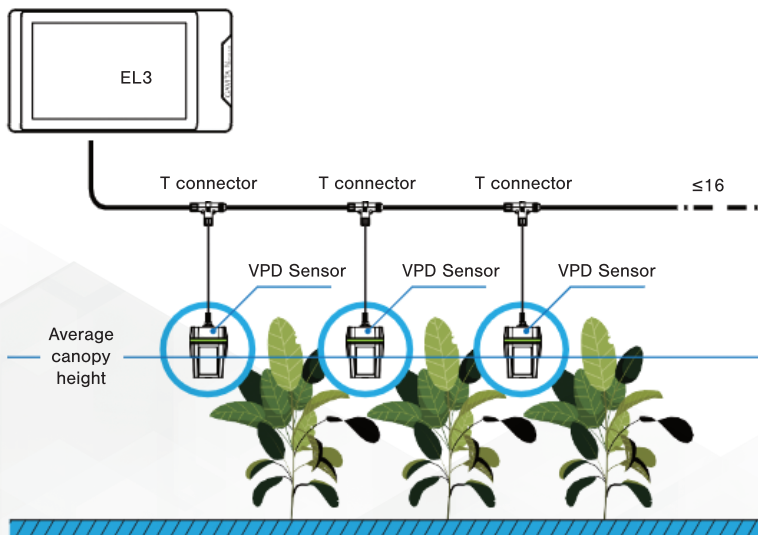
Performance parameter	
Power	≤0.8W
Power supply	6 - 24V DC
Operation temperature range	32° F - 122° F
Operation humidity range	≤95%RH
Min time interval for data reporting	<8 S
Interface protocol	CANbus
Communication rate	50Kbps
Compliance	UL61010-1 CSA C22.2 #61010-1-12 FCC Part 18
Function parameter	
Interface protocol	CANBus
Screen resolution	240*320

Accuracy		
Sensor Specification	Measuring Range	Accuracy
Temperature	0° C ~ 50° C	±0.5° C
Relative Humidity	0%RH ~ 95%RH	±5%RH

Installation Method And Connecting To EL3

Up to 16 Tali[™] VPD sensors can be connected to the Gavita[™] EL3.

The Titan Controls[™] Tali[™] 3-in-1 VPD sensor needs to be used in a ventilated environment, and the installation position is as shown in the figure. Failure to follow the recommended positioning may result in nonoptimal readings.



Notes

1 Square = _____ Foot/Feet



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, test various components and possibly identify and/or fix issues. 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 damaged in shipment, we are not responsible for the unit.

Once we receive the unit, we will repair it within 48 hours (business days) and return it to you as 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? _____

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.
Representative available Monday – Friday, 8 a.m. – 5 p.m. PST.

Warranty Information

When purchased from an authorized Hawthorne dealer, this product is covered by a LIMITED WARRANTY available at: hawthornegc.com/warranties. You can also obtain the Terms of Sale and Limited Warranty by calling Hawthorne toll-free at: 1-888-478-6544 or writing Hawthorne at: Hawthorne Hydroponics LLC, 3204 NW 38th Circle, Vancouver, WA 98660, Attn: Customer Service.

Service and Repair Program

- For all service and repairs, please contact one of our Technical Service Representatives for a Return Merchandise Authorization (RMA) number.
- Titan Controls[™] will, at its discretion, repair or replace the sensor.
- Factory calibration services are available for all Titan Controls[™].
- Returning Units: Please contact your retail store for returns.



This device complies with Part 18 of the FCC Rules.

This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. A simple measure to correct interference is to add ferrites to the ends of lengths of communication cables.



Scan for the most up-to-date instructions.



HAWTHORNE GARDENING™

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Manufactured for Hawthorne Hydroponics LLC,
a subsidiary of The Hawthorne Gardening Company,
800 Port Washington Blvd, Port Washington, NY 11050

HawthorneGC.com | Canada:HawthorneGC.ca

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