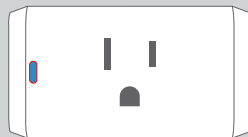


Welcome!
I'm a Smart Plug.
Let's get started.



HSP110

Overview

The HSP110 smart plug is a member of the HydroMesh™ product family. This document will explain how to operate your new smart plug.

Supply Power to Smart Plug

1 Supply Power to Smart Plug

1.1 How to power up the smart plug

1.1.1 Power on the HSP110 smart plug by plugging it into a NEMA type 5-15R 3-prong grounded receptacle similar to that shown in the diagram below. The indicator LED will begin breathing a blue color.



1.1.2 The smart plug defaults to the “off” state so AC power is not supplied to the smart plug receptacle until a switch “on” command is received.

There are two ways the smart plug can be switched on and off. First, the button on the end of the smart plug can be used as a switch. Second, the HydroMesh™ controller is the intended method of switching via a mesh network.

Smart Plug Manual Switching

2 Smart Plug Manual Switching

2.1 Switching the smart plug on and off with the button

2.1.1 The smart plug LED starts up breathing a blue color indicating that the plug is switched “off” and ready to be controlled with the button.

2.1.2 Press and release the button on the end of the smart plug. The LED will illuminate with solid blue indicating that power is switched “on” in the manual mode.

LED blue: manual mode using button as switch

LED breathing blue: power is switched “off”
LED solid blue: power is switched “on”

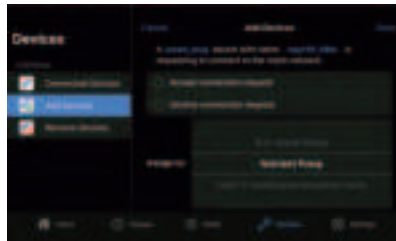
Smart Plug Automatic Switching

3 Smart Plug Automatic Switching

3.1 Connecting the smart plug to the HydroMesh™ controller

3.1.1 Press and hold the button on the end of the smart plug. Continue holding the button until the LED blinks green and then release the button.

3.1.2 The HydroMesh™ controller will recognize the request to connect by changing to the “Add Devices” screen as illustrated below.



3.1.3 Press the “Accept connection request” button.

3.1.4 Scroll to the desired “Assign to:” function as shown above. e.g. Nutrient Pump.

3.1.5 Press the “Done” button.

3.1.6 After a few seconds, the LED on the HSP110 smart plug will begin to breath green. The smart plug is now connected to the mesh network and is ready to accept commands from the HydroMesh™ controller.

- The smart plug defaults to the “off” state so AC power is not supplied to the smart plug receptacle until a switch “on” command is received from the controller.

- LED breathing green: power is switched “off”.
- LED solid green: power is switched “on”.

3.2 Switching the smart plug on and off manually with the button after connection to the HydroMesh™ controller

3.2.1 The button on the end of the smart plug can be pressed at any time to manually switch “on” and “off”. The LED will illuminate with a blue color indicating the manual mode is active.

3.2.2 If the HydroMesh™ controller is active and the controller sends a command to switch the smart plug, the LED will change back to a green illumination, indicating that the smart plug is in automatic mode.

3.3 Switching the smart plug on and off with the HydroMesh™ controller touch buttons

3.3.1 The smart plug can also be switched on and off using touch panel buttons on the HydroMesh™ controller. See user manual for the HydroMesh™ controller to learn more about this feature.

Restarting the Smart Plug

4 Restarting the Smart Plug

4.1 How to restart the smart plug by unplugging it

4.1.1 Restart the smart plug by unplugging it and plugging it back in to AC power source. Network information saved in memory will remain saved when restarting the plug in this manner.

Resetting the Smart Plug

4 Resetting the Smart Plug

4.1 How to reset the smart plug using the button

4.1.1 Resetting the smart plug will erase network information that may have been previously saved. This is different than restarting the smart plug by unplugging it and plugging it back in to AC power. Resetting erases information that was previously saved in memory.

4.1.2 To reset the smart plug, press and hold the button on the end of the smart plug. Continue holding the button until the LED rapidly blinks red and then release the button.

Note: While holding the button, the LED will rapidly blink green and then it will begin to rapidly blink red. Release the button after you see the LED rapidly blink red.

4.1.3 After a few seconds, the LED will blink slower red and change to breathing blue once the reset has completed.

Additional Notes

Type 1 Enclosure

Purpose of control: Operating Control;

Construction of control: Portable Direct Plug In Type.

Type 1 Action

Pollution Degree: 2;

Impulse Voltage: 1500 V.

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

2. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Having Issues?

We're here to help!

For technical support or more information about your smart plug, please contact us at:

support@royalhydroponics.net

or call us at:

800-707-2382

www.royalhydroponics.net

www.hydromesh.net

Office:

Royal Hydroponics LLC
121 N. Leavitt Road
Amherst, Ohio 44001
U.S.A.