

INSIDE THE BOX

Spruce
controller



AC Adapter

Mounting Hardware
x2 Screws
x2 Drywall Anchors



INSTALLING THE SPRUCE SMARTAPP

Establish a network connection with the SmartThings Hub first, before mounting the hardware. Perform the initial network connection in close proximity to the SmartThings Hub. Plug the power into Spruce and wait for Spruce to finish booting (the logo flashes purple/green when booting, and changes to blinking red when done).

In the SmartThings App, navigate to the Marketplace  then tap + Connect New Device. SmartThings will start to search for devices.

While SmartThings is searching, tell Spruce to join the network: On the Controller, press the Function button (logo will turn teal), then touch Zone 9 (logo will flash red/blue). Spruce should connect to SmartThings within 1 minute. When Spruce is connected, the indicator light will switch to solid blue.

The SmartThings App should have also identified your new device as the Spruce Controller - select it now (If SmartThings identifies the device as a generic Thing or a different device, visit our Support Page for instructions to un-pair; then try connecting again).

On the next screen, add the Spruce Controller to the Spruce Room. If the Spruce Room does not exist, add it by tapping Select a Room, then Add a new room. Add the room and name it Spruce. When done, tap next. The next screen configures how Spruce will interact with other devices in SmartThings. Make any desired changes, then tap Done.

Unplug the Controller and prep to mount the hardware.

REMOVE THE EXISTING CONTROLLER

Remove your existing controller and take note of which zone wires correspond to which zones. It will be helpful to take a picture. You can also use the table below to take notes.

MOUNT THE MOUNTING PLATE

If necessary, install drywall anchors. Use a drill to drill two holes in alignment with the mounting holes, and insert the provided drywall anchors. Remove the faceplate from the Controller. Using the 2 screws provided, screw the Spruce Controller Mounting Plate into the drywall anchors, or directly into bare wood.

INSTALL THE ZONE WIRES

Feed the zone wire bundle under the bottom bracket and insert the zone wires into the screwless connectors. It may be helpful to push down on the terminal block with a small screwdriver when inserting or releasing wires. Make sure all the connections are tight.

The common, 16 zones, and rain sensor ports are labelled on the board. It does not matter which common ports are used. The Master/Pump wire (if applicable) can be installed into any open zone and then configured as such in the Zone Summary and Setup section of the SmartApp. The 24VAC ports are optional and not necessary if using the supplied AC adaptor & power input port at the bottom of the unit.

Re-install the faceplate. Take care to align the pins. Plug the AC adaptor into Spruce and into a wall plug (Note: the faceplate must be re-attached before plugging in the power). The Spruce indicator will change to solid blue when connected. Remove the protective plastic from the faceplate when ready.

MANUAL ZONE OPERATION

This would be a good opportunity to test that the wiring was installed correctly by toggling your zones manually. Zones can be toggled on or off manually on the Spruce Controller by simply touching the zone of interest to toggle the zone ON or OFF.

For manual control via the SmartThings App, navigate to My Home  -> Spruce Room and select your Spruce Controller. Tap on any of the zones to toggle the zones on or off.



NOTE: You may see an alarm state on the controller after rebooting. This will clear itself after the next schedule begins.

INDICATOR LIGHT CODES

-  Flashing Purple/Green
Booting up
-  Flashing Red
Not connected to network
-  Flashing Red/Blue
Searching for network
-  Blue
Connected to network
-  Flashing Blue/Green
Scheduled watering
-  Teal
Function button active

ZONE NOTES

1	9
2	10
3	11
4	12
5	13
6	14
7	15
8	16

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Spruce™ Wireless Smart Irrigation Controller, 16 zone
Model Number: PS-SPR16-01
Contains FCC ID: XFF-Z357PA20



FCC Compliance Statement

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 to an outlet on a circuit different from that to which the receiver is connected.
 - Consult an experienced radio/TV technician for help.
- Changes or modifications to this product not authorized by Plaid Systems could void the electromagnetic compatibility and wireless compliance and negate your authority to operate the product.

Canada Statement

This Class B digital apparatus complies with Canadian ICES-003. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

