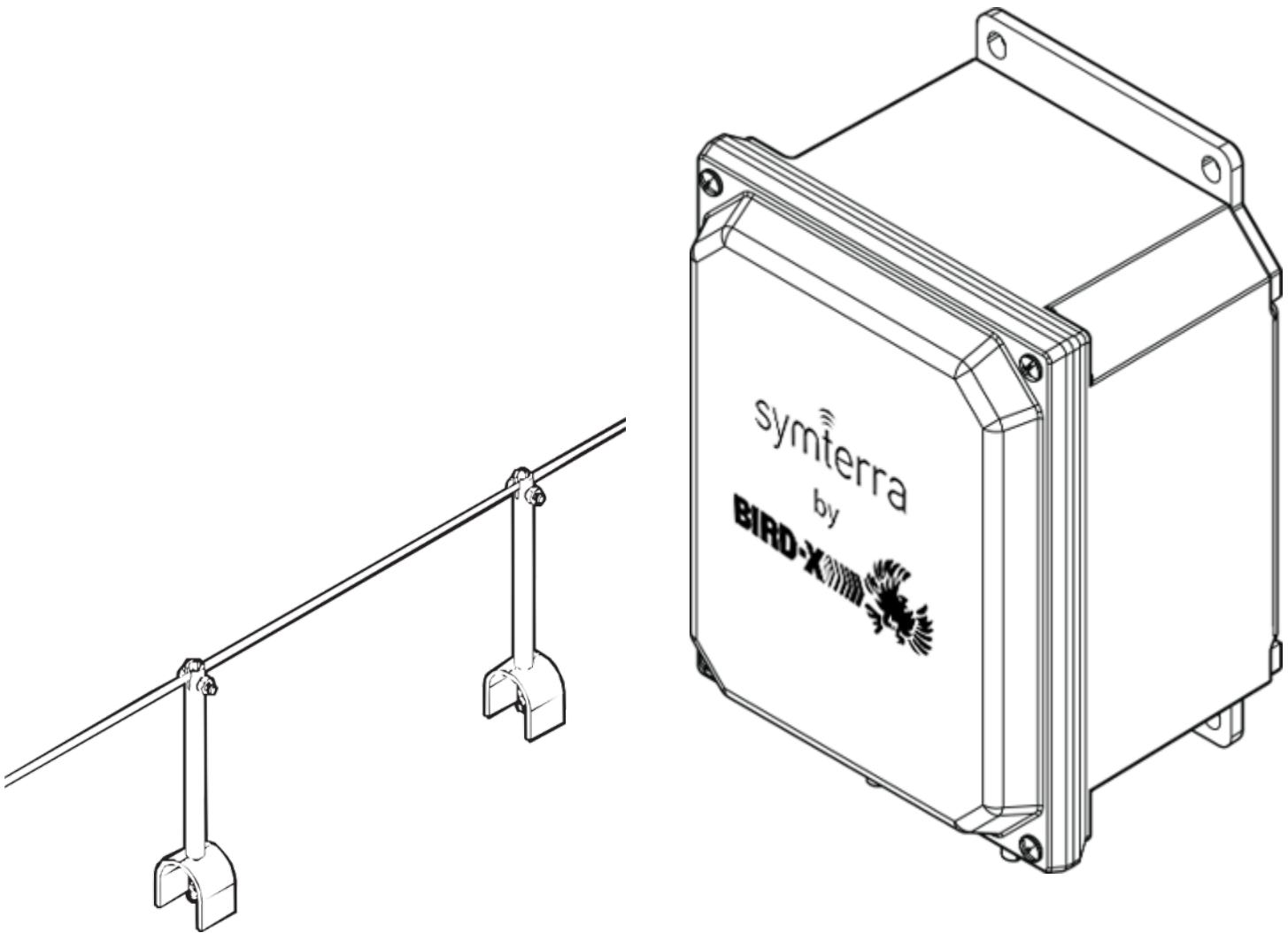




Installation Manual

Symterra VFU

Bird Repellent System
Model SMT-01
(Patent Pending)



Address & Contact Information:

Bird-X, Inc.

845 N. Larch Ave Suite 2
Elmhurst, IL 60126

Website:

www.bird-x.com

Support Information:

solutions@bird-x.com

Patent Pending

Manual info:

These are the original instructions. The English language is binding.

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1. IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

List of Abbreviations:

HVAC: Heating, Ventilation, and Air Conditioning

PPE: Personal Protective Equipment

GFCI: Ground Fault Circuit Interrupter

1.1 SAFETY WARNINGS

When properly installed, the Symterra VFU System keeps multiple species of birds away from the area where the system is installed.

WARNING



When using electrical devices, basic precautions should always be followed, including the following:

- Read all the instructions before installing or operating the Symterra VFU System.
- To reduce the risk of injury, close supervision is necessary when the system is used near children.
- Only use accessories and components recommended or sold by Symterra.
- To disconnect the system, turn off all controls and unplug it from the outlet.
- Do not unplug by pulling on the cord. To unplug, grasp the plug, not the cord.
- Unplug from the outlet when not in use and before servicing or cleaning.
- Do not operate the system if the power cord or plug is damaged, or if it malfunctions or has been dropped or appears damaged in any way. Contact Symterra Support.
- This device must be connected to a properly grounded outlet. See Grounding Instructions on page 18.
- This device is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the device by a person responsible for their safety.
- A violation of the above can result in the loss of warranty.

SAVE THESE INSTRUCTIONS

NOTICE



- Read this manual carefully before installing the VFU System to understand its correct use. Follow each step outlined in this Installation Manual for optimal results.
- Incorrect handling of the equipment could result in personal injury or physical damage.
- The manufacturer assumes no responsibility for any damage caused by mishandling beyond normal usage defined in this manual.
- To ensure the functionality of the Symterra system, you must use only Symterra approved components.
- Symterra must approve any modification or adjustment before installation.
- Power cords or external connectors must not be replaced by anyone other than Symterra-approved personnel.

ELECTRICAL RATING



- Voltage: 110/220-240
- Frequency: 60 Hz
- Avg Power: 7W max
- Peak Power: 35W max
- Grounded plug required

NOTICE



This system produces an electrical current, which could potentially cause injuries if the Emitter Line contains a break in the insulation. Always power off the system to avoid electric shock before repairing or maintaining the system.



Working at elevated heights must be done according to the safety standards applicable to this type of work. Always use approved Fall Protection Equipment when working at heights. Failure to use proper fall protection can result in serious injury or death.



The system is not designed for use by children. Ensure that all components are securely installed and inaccessible to children to prevent accidental injury or damage. Adult supervision is always required when the system is in use. Failure to follow these precautions may result in serious injury or harm. Device to only be used in controlled areas including areas where children are not present.



Regular quarterly preventive maintenance, including visual inspections and verification of securely fastened wiring is required.



Label
VFU SMT-01 NA

symterra		DATE	S/N
Birds Repeller System Model: Pulse SMT-01 NA Input: 120V~, 60Hz; Rated Input Current: 0.4A; Output Voltage: 2.5 kV; Output Current: 20mA Rated Temp: -20°C to 50°C Year: 2025 Manufacturer: Bird-X, Inc. 845 N Larch Ave Suite 2, Elmhurst, IL 60126 - USA customerservice@bird-x.com +1 (800) 662-5021			
ATTENTION: Unplug before service. Violation of the system results in the loss of warranty. Risk of electric shock. Authorized Technician Only. Dispose in appropriate location. AVERTISSEMENT: Débranchez avant l'intervention. La violation du système entraîne la perte de la garantie. Risque de choc électrique. Technicien autorisé uniquement. Jetez-le dans un endroit approprié.			
  			



Label
VFU SMT-01
INT

symterra		DATE	S/N
Birds Repeller System Model: Pulse SMT-01 INT Input: 230/240V~, 50Hz; Rated Input Current: 20mA; Output Voltage: 2.5 kV; Output Current: 20mA Rated Temp: -20°C to 50°C Year: 2025 Manufacturer: Bird-X, Inc. 845 N Larch Ave Suite 2, Elmhurst, IL 60126 - USA customerservice@bird-x.com +1 (800) 662-5021			
ATTENTION: Unplug before service. Violation of the system results in the loss of warranty. Risk of electric shock. Authorized Technician Only. Dispose in appropriate location. AVERTISSEMENT: Débranchez avant l'intervention. La violation du système entraîne la perte de la garantie. Risque de choc électrique. Technicien autorisé uniquement. Jetez-le dans un endroit approprié.			
  			

1.2 Unintended Use

This product is designed for specific applications as outlined in this manual. Any use of the product outside its intended purpose or environment may result in damage to the system, void the warranty, or cause injury. The manufacturer is not responsible for any malfunctions, damage, or accidents caused by unintended use or modification of the product. Always follow the instructions and safety guidelines provided to ensure proper operation.

1.3 Personal Protective Equipment (PPE)



While handling, assembling, and installing the Symterra VFU System, adhere to all recommended safety instructions and ensure that the correct Personal Protective Equipment (PPE) is used.

General Guidelines

- Assess Hazards: Determine the risks present in the work area and select appropriate PPE based on hazard assessment.
- Inspect PPE Before Use: Check for any visible damage such as tears, cracks, or signs of wear. Do not use damaged equipment.
- Proper Fit: Ensure that PPE fits properly. Ill-fitting PPE can reduce effectiveness and increase the risk of injury.
- Training: Workers should be trained on the proper use, limitations, maintenance, and storage of PPE.

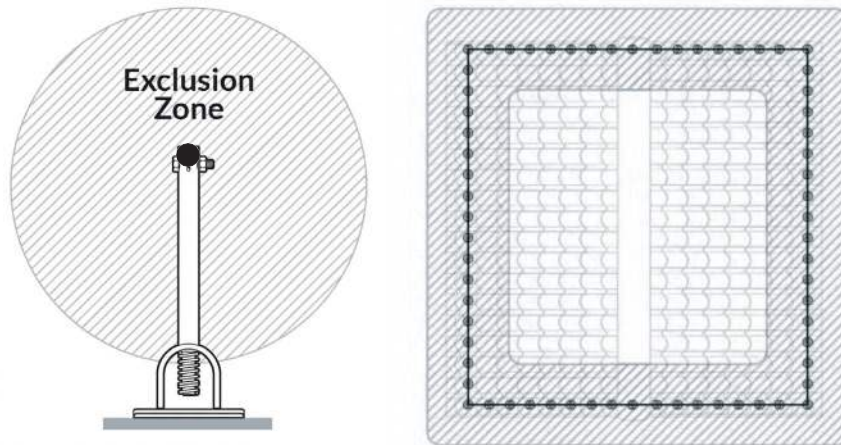
1.4 Local Building Codes and Regulations

Before installation, it is crucial to check local building codes, regulations, and electrical requirements to ensure compliance. These rules vary by region and can impact installation methods, safety standards, and overall system performance. Verifying compliance in advance helps avoid costly modifications, fines, or potential safety hazards. Always consult with local authorities or a licensed professional to ensure a smooth and legal installation.

2. UNDERSTANDING THE TECHNOLOGY

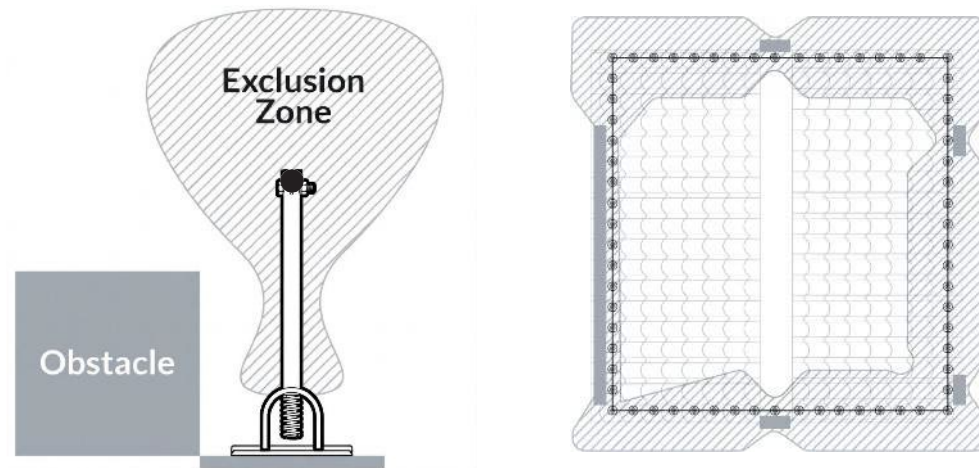
2.1 Exclusion Zones

Utilizing proprietary technology, Symterra VFU creates an invisible barrier (exclusion zone) that deters birds from landing or nesting on structures.



2.2 Interaction with Substrates, Structures, & Obstacles

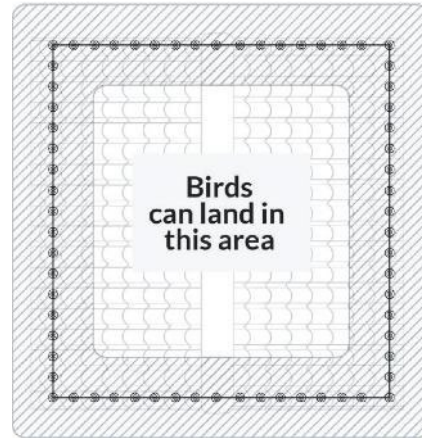
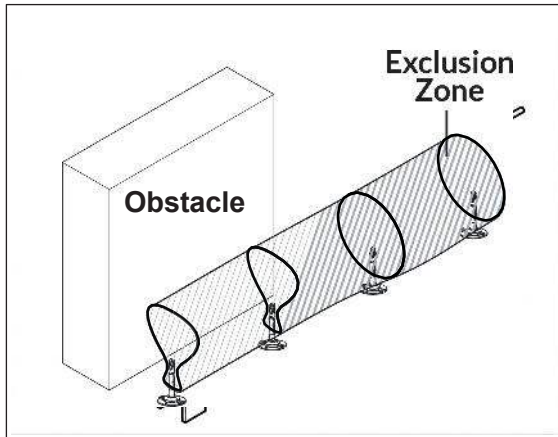
The signal range and performance of exclusion zones are influenced by the surrounding environment. This occurs because different types of substrates or obstacles near the system absorb portions of the signal.



The signal attenuation is localized around the obstacle.

If an obstacle, such as a wall or nearby metal structure, runs along the length of the line, the deterrent signal will be affected by the obstacle. In this case, the obstacle is considered a substrate, therefore reducing the efficacy of the system.

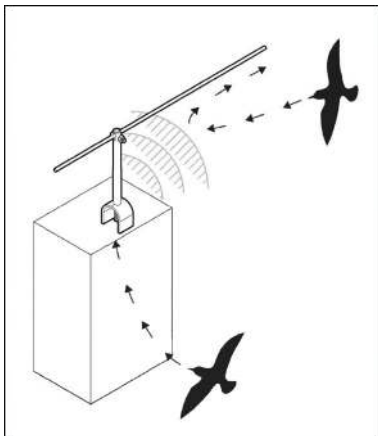
Certain substrates, such as metal structures, exert a greater influence on system performance. Refer to the “Height Recommendations for Substrates” section on page (p. 21) to mitigate these effects.



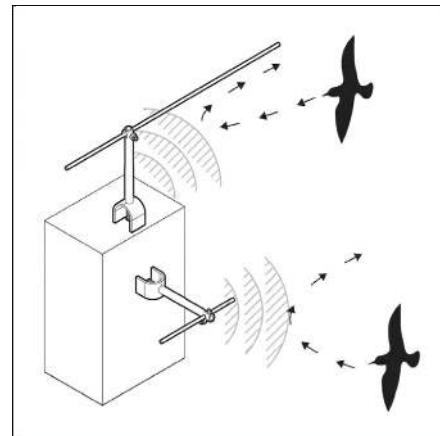
2.3 Birds Landing vs. Walking

The Symterra VFU signal effectively deters birds from landing in protected areas. However, certain bird species may land in adjacent areas and approach the system by walking. To ensure effectiveness, it is crucial to install the system in a manner that prevents birds from landing on the structure.

2.4 Line of Sight



The Symterra VFU System is most effective when the supports point in the direction of a bird's line of sight.



Both line of sights covered to prevent birds from landing in the building.

3. COMPONENTS

Figure	Component Name	Properties
	Control Hub	Voltage: 110/220-240 Volts Input current: 20mA Operation Voltage: 2,500 Volts Ingress Protection: IP65 enclosure Temperature rating: -40°C to 130°C (-40°F to 266°F) Weight: 6 lb (2.72 kg) Dimensions: 9 x 6 x 4 in (229 x 152 x 102 mm) (L x W x H)
	Emitter Line	Length: 100 ft / 30 m
	Male Crimp Bushing	To connect Emitter Line with Male Line Extender
	Male Line Extender	Used to create an insulated end on a line that can be extended with the appropriate mating female connector
	Female Crimp Bushing	To connect Emitter Line with Female Line Extender
	Female Line Extender	Used to create an insulated end on a line that can be extended with the appropriate mating male connector
	Y-Connector Assembly	Used to create branches off of the main line. Wire-ends with insulated line extenders are used to connect
	Tower Rods	Positions the Emitter Line away from the substrate
	End Cap	Used to terminate the Emitter Line
	Crimp Pliers	Suitable for three crimp sizes

3.1 Control Hub

At the heart of the Symterra VFU System, the Control Hub generates and manages the proprietary signals that create the deterrent zone. It is easy to install and connect to your existing power source, providing continuous protection with minimal energy use.

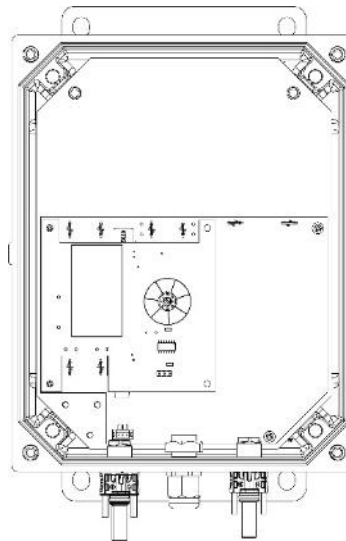
WARNING. HIGH VOLTAGE!



The Control Hub must only be opened by a trained user with the unit **UNPLUGGED** from the power outlet.

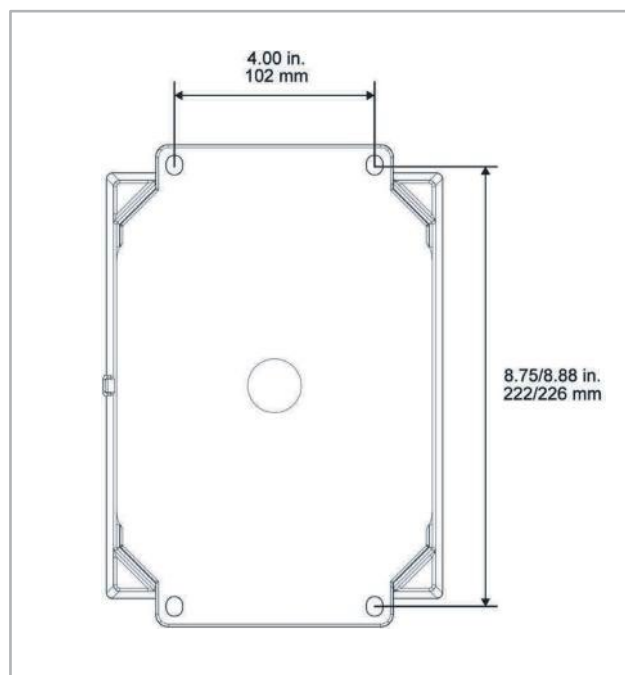
100–300 Hz
Seagulls and slow flying birds.

300–500 Hz
Pigeons and fast flying birds.



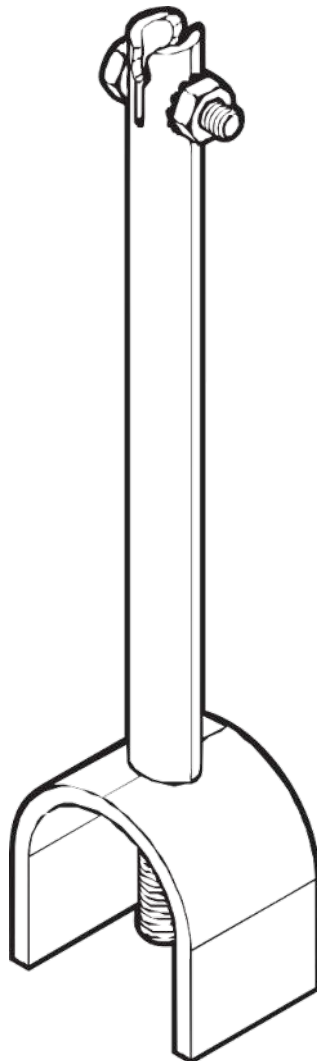
Mounting Hole Pattern

- Fasteners should be placed in the 4 holes designated for the mounting hardware and are NOT supplied with the system.
- Maximum screw size is 5/16 inch or an M8.
- The Hub must be mounted vertically with outlets facing downwards.



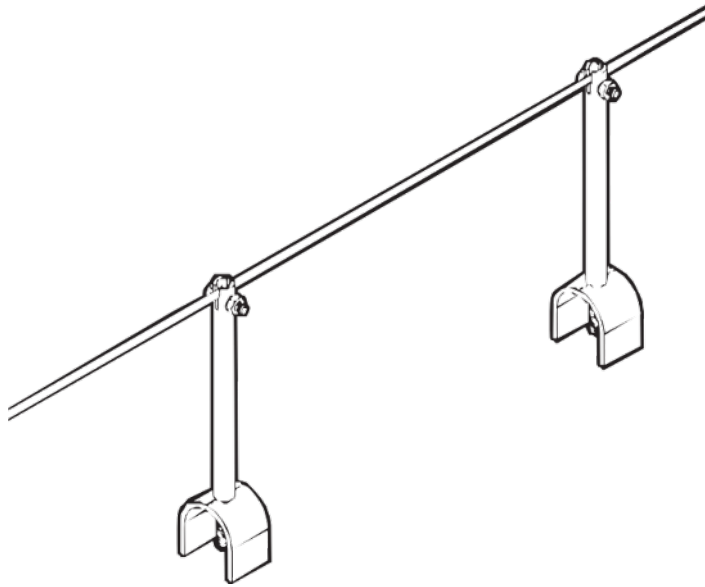
3.2 Tower Rods

Custom designed rods secure the Emitter Line in place while ensuring it maintains the proper height and alignment for optimal performance.



3.3 Emitter Line

The Emitter Line is the primary physical component that extends the deterrent signal across the install area. It is designed to be flexible and can be installed on various height levels.



NOTE

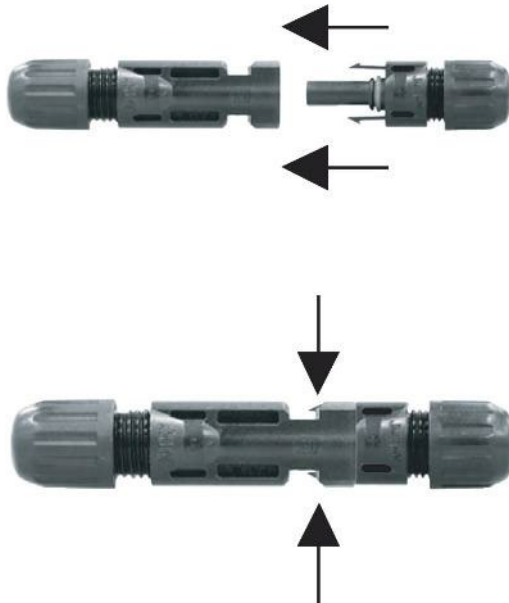


The maximum coverage provided by one (1) Symterra VFU system is 600 linear feet or 180 linear meters. It's restricted to 450 linear feet for Towers.

3.4 Connectors

These connectors are used to join multiple sections of the Emitter Line together, ensuring a secure and seamless connection. Line Extenders are durable and designed to maintain the integrity of the signal throughout the entire system.

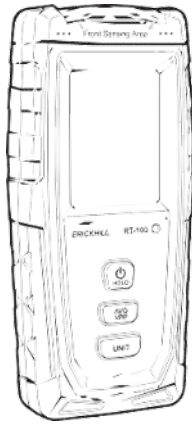
These connectors also have an IP66 rating and are designed to be dust-tight and highly water-resistant. The IP66 rating means it is completely sealed against dust and other small particles, as well as it can withstand powerful water jets from any direction without letting water in. These types of connectors are ideal for outdoor and industrial environments, where they protect electrical connections from harsh conditions like rain, dust, and high-pressure cleaning.



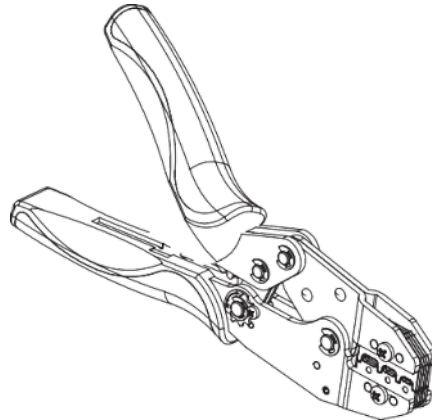
- Simply connect the male and female ends of the two sections together.
- You will hear an audible click when they are fully seated together.
- Once the connectors have made an audible click, they are securely in place and cannot be easily removed.

If they need to be disconnected for any reason, there are two prongs inside that need to be released for the two sides to come loose. We recommend using a very small flat head screwdriver or ring plier to achieve this.

3.5 Tools



■ ERICKHILL EMF Meter (sold separately)



■ Crimp Pliers (sold separately)

3.6 Additional Required Tools *(not provided by Symterra)*

We also recommend you have the following on hand as these items will ensure your installation goes smoothly.

- Mounting screws for your Control Hub
- Wire Cutters
- Ring Pliers
- Screws for the Support Bases (if using the Standard system)
- Epoxy (if using the Standard system)
- UV resistant zip ties (if using the Standard system)

4. INSTALLATION INSTRUCTIONS

4.1 Conducting a Site Survey

It is recommended to conduct a site survey to locate power outlets and identify substrate types, bird species in the area, and landing patterns. This will guide the layout if not done prior to installation. Some details to pay close attention to are:

- Power outlet location(s)
- Type of substrates
- Emitter Line expected length
- Bird species
- Bird landing patterns
- Bird pressure
- Bird behavior

The Symterra System VFU has been tested on the following birds. Please contact your Symterra Sales Representative before making a purchase if you are planning to install for a species not listed here.

- Buzzards
- Storks
- Turkey Vultures

ATTENTION



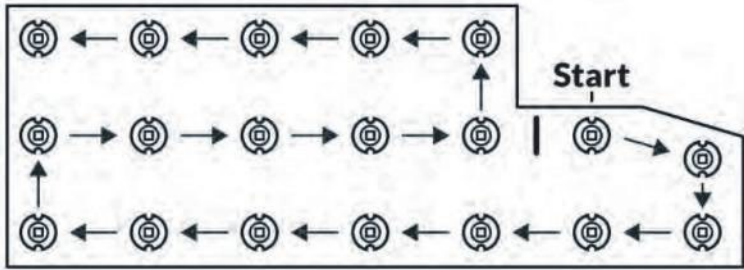
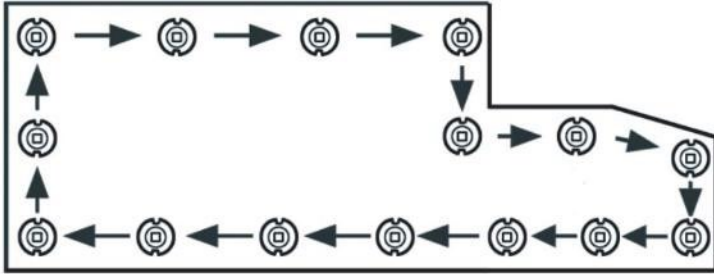
You MUST know the species of bird to determine whether it is protected or not. If you have any doubts, reach out to your local wildlife authorities.

4.2 Cleaning & Sanitizing

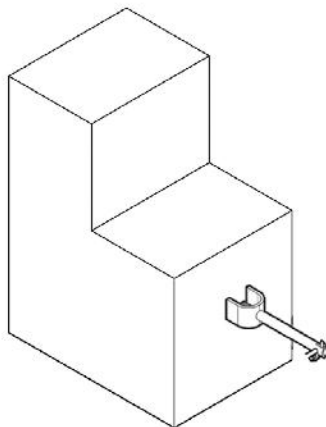
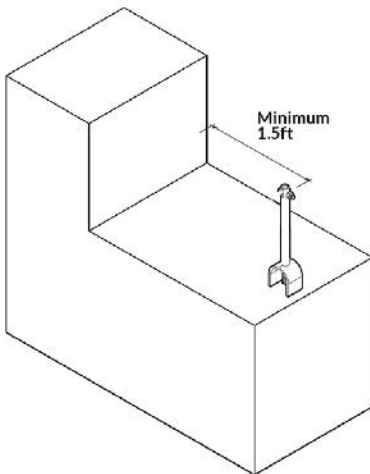
It is MANDATORY to begin with site preparation. Clearing the area of any bird debris and sanitizing prior to installing the Symterra system is crucial for its long-term effectiveness. Birds are highly territorial and attracted to their own scent markers, droppings, and nesting materials. Cleaning the area eliminates these attractants, reduces the risk of disease transmission, and ensures the system functions as intended. We recommend using ProBlend EVO Microbial Bird Dropping Cleaner. Always wear PPE when cleaning bird droppings.

4.3 Planning your Symterra System Layout

Layout & Attach



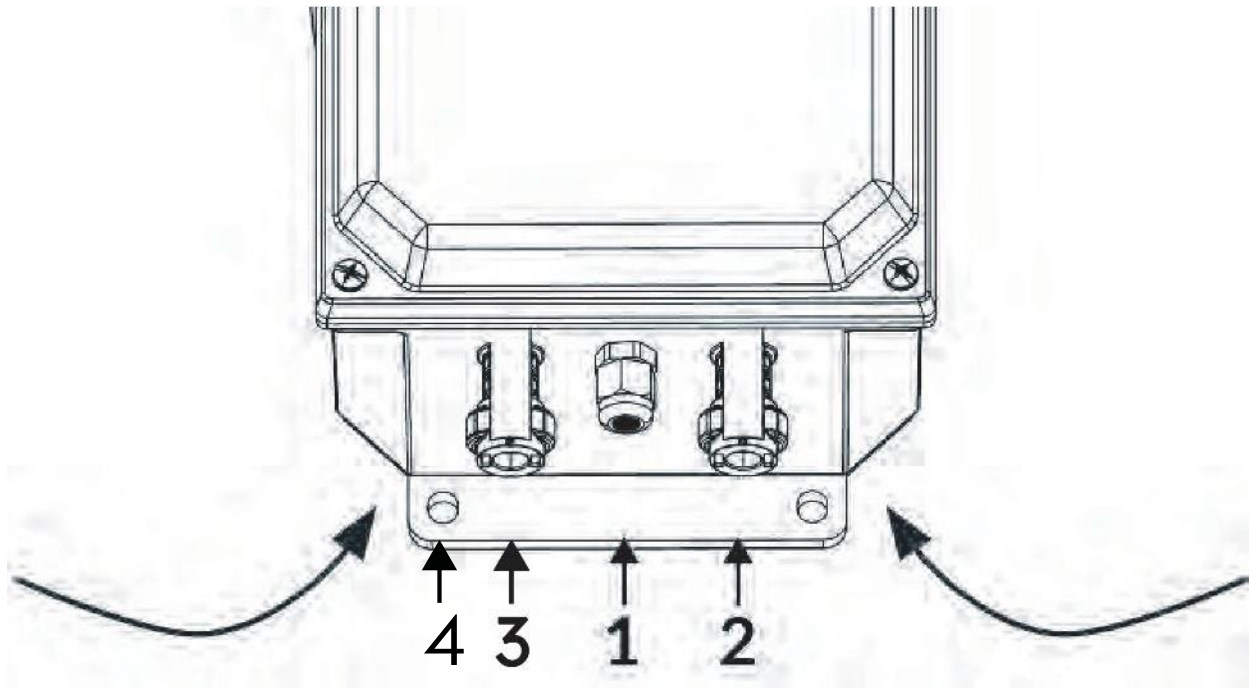
■ In areas with small birds or heavy bird infestations, it may be necessary to add additional lines.



■ If a wall or substrate is present beside the support, a distance of 1 to 1.5 ft (30 to 45 cm) should be allotted for optimal signal performance. If space is not available, the support structure must be mounted perpendicular to the wall. For support height, refer to the *Height Recommendations table*.

4.4 Installation of Symterra VFU

Step 1: Installing the Control Hub



- 1) Power Input Cable
- 2) Emitter Line Terminal
- 3) Grounding Terminal
- 4) Mounting Holes

Mount the Control Hub firmly to the structure using the appropriate fasteners placed in the four (4) holes designated for the mounting hardware.

WARNING!



DO NOT power the system on until the Emitter Line(s) are connected to the Control Hub and all components are securely in place.

Step 2: Grounding the System

The Symterra VFU System must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This device is equipped with a power cord containing an equipment-grounding conductor and a grounding plug. The plug must be connected to an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances. There are two steps in grounding Symterra VFU system.

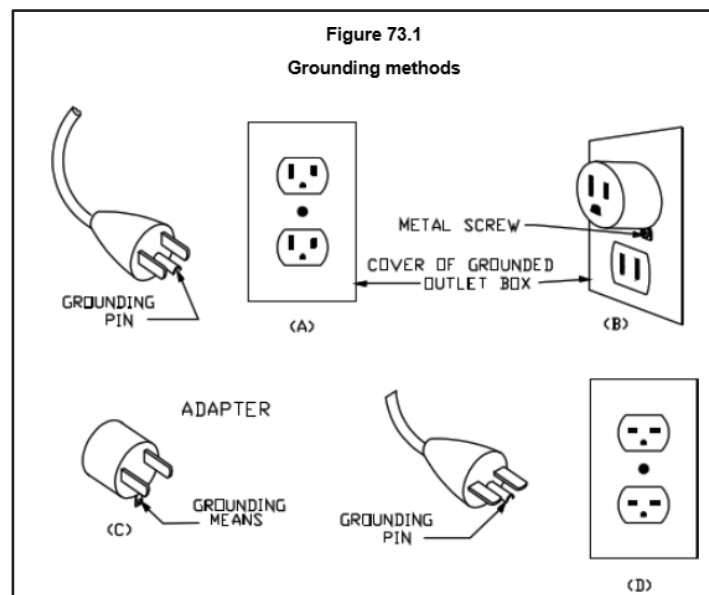
Grounding through Power cord to GFCI/wall output plug:

DANGER!



Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green, with or without yellow stripes, is the equipment-grounding conductor. If repair or replacement of the power cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

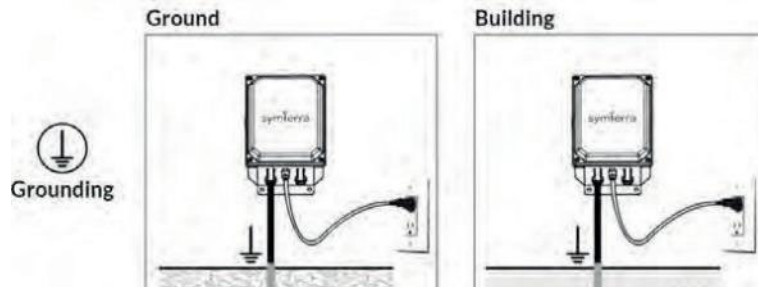
If you are unsure whether the outlet is properly grounded, consult a qualified electrician. Do not modify the plug provided with the system — if it will not fit the outlet, have a properly grounded outlet installed by a qualified electrician.



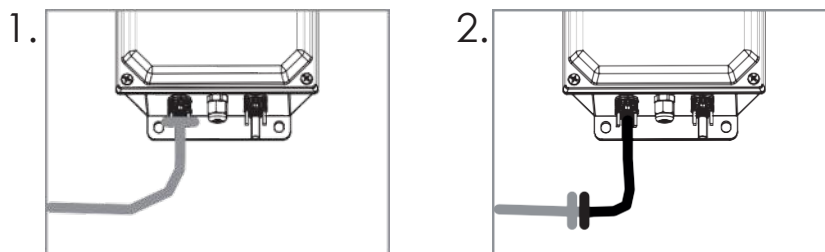
Grounding through dedicated MC4 connector:

The most common form of grounding is through the use of a grounding electrode. This conductor connects the system to the earth via ground rods, or grounding plates.

- Using the terminal marked “Grounding” on the Control Hub, connect the panel-mounted ground connector to a grounding rod installed 4ft/1.2m deep in moist soil or the nearest electrical conduit.
- Preference should be given to the shortest possible electrical path while choosing the source for grounding.
- The system may be grounded to existing metal conduit in the roof ONLY if the metal conduit itself is grounded and can be verified through a visual inspection or continuity test.
- The images below are for reference only and the installer must follow local regulations for grounding techniques.



- It is preferred to use a standard copper grounding wire connected to a small segment of Symterra's Emitter Line using a Female Line Extender. The connection between the two segments should be carried out in accordance with local electrical codes and regulations.
- If a copper wire is not available, a wire with an outer diameter of $5.5 \text{ mm} \pm 0.2 \text{ mm}$ ($0.217 \text{ in} \pm 0.008 \text{ in}$) and an internal conductor outer diameter of $1.8 \text{ mm} \pm 0.2 \text{ mm}$ ($0.071 \text{ in} \pm 0.008 \text{ in}$) may be used with the Female Line Extender.
- The grounding wire should be rated according to your local grid voltage, such as 110V in the United States or 230V in Australia.



- Connection between the two wires should be done as per local regulations.

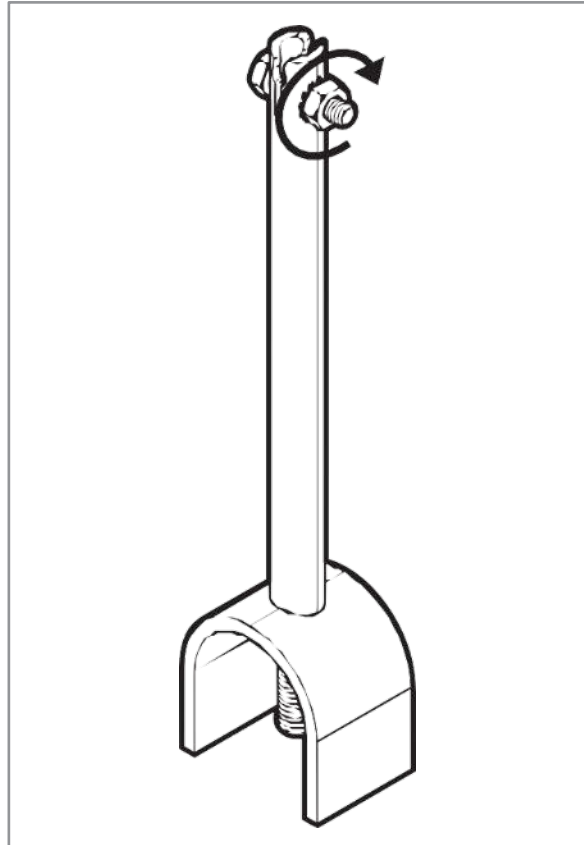
WARNING!



DO NOT ground the system to OR operate near gas pipes, water conduits, metal substrates!

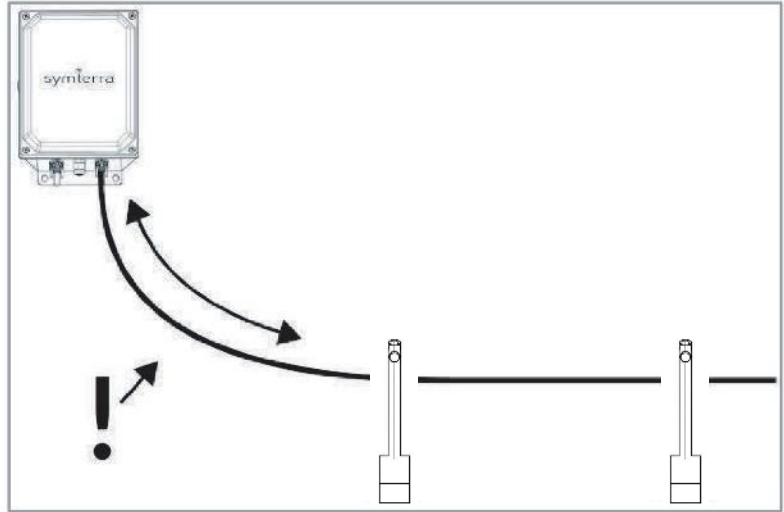
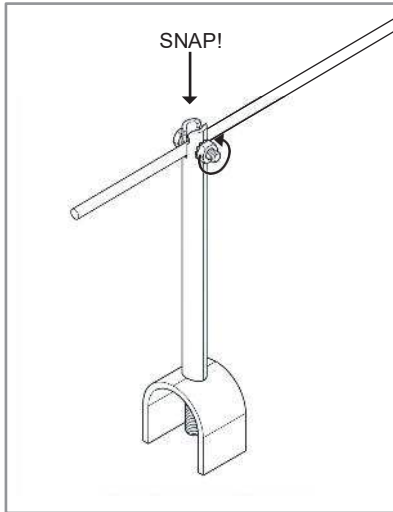
Step 3: Building & Attaching the Tower Rods

To Install the wire, Unscrew the bolt at the top, Slide the wire in and lock the bolt back in place



Step 4: Installing the Emitter Line

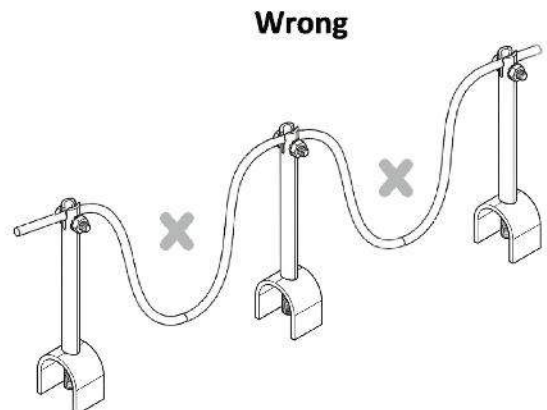
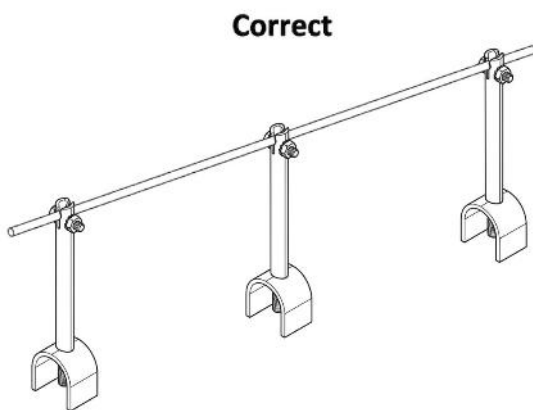
Press the line firmly until it snaps entirely in the circular recess in the support until it snaps into place. Once positioned, tighten the bolt and nut to securely fasten the wire.



Note:

The portion of the Line between the Control Hub and the first Support should always be a minimum of 2 inches / 5 cm from the substrate.

Correct Emitter Line Installation



IMPORTANT!

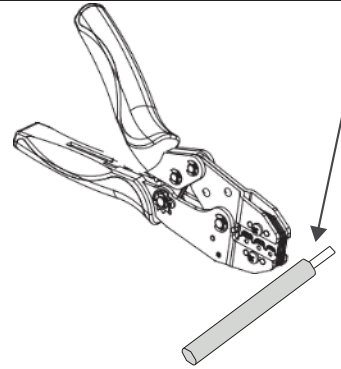


Maintaining the Emitter Line at the optimal distance from the substrate and other surfaces will maximize system performance.

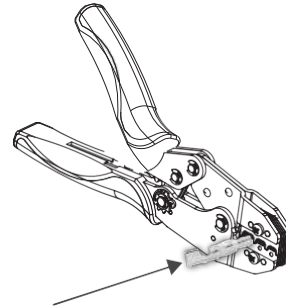
Step 5: Line Extending Connectors

Install the appropriate line extending connectors (as shown below) when joining wires, branching and terminating lines.

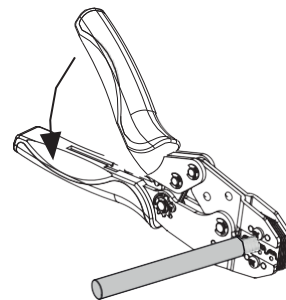
1. Strip off the insulation on the Emitter Line 1/2in (1.27cm) from the end to expose the conductor (stranded wire).



2. Insert the male or female crimp bushing into the crimper and slightly press the lever to grip the bushing.



3. Insert the stripped section of the Emitter Line into the bushing held in crimper and firmly press the lever to crimp the wire and bushing together.



IMPORTANT!



Only use the connectors provided by Symterra, along with the designated crimp tool, to connect segments of the emitter line.

Using any other method will compromise the system, violate safety standards, and void the product warranty.

4. Unscrew the back nut of the male or female line extender and pass the nut and sealing gasket over the crimped wire.

NOTE: It is imperative to have the sealing gasket inserted over the wire to maintain the IP rating.



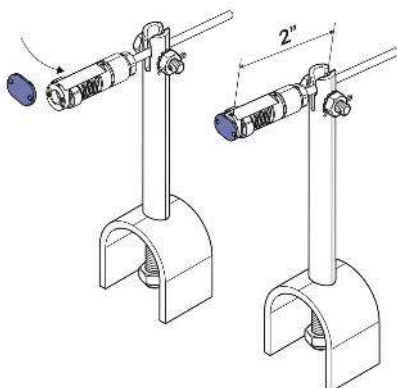
5. Push the crimped wire inside the line extender until you hear a snapping sound indicating a secure connection.



6. Screw the nut tightly in place to complete the crimping process.



Terminating Connections

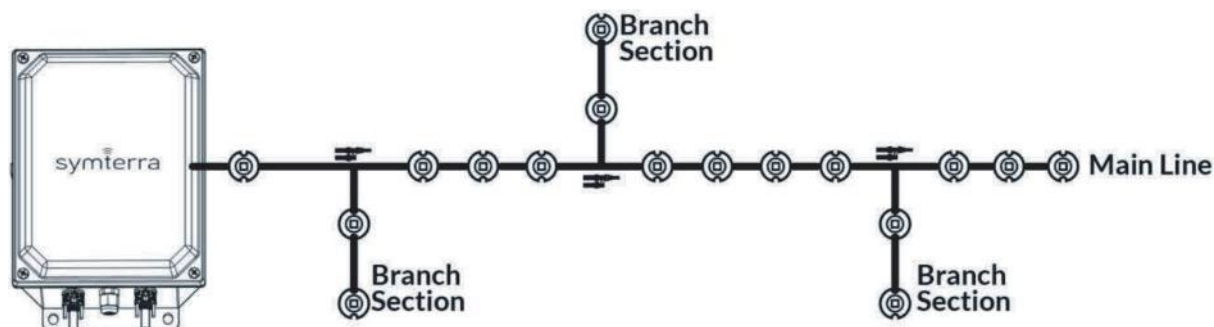


- Terminate the end of the Emitter Line by crimping a line extending connector onto the line and attaching an end cap. Ensure that no more than 2 inches/5cm of wire is hanging off of the final support.

- This orientation ensures that the insulating connector will not make contact with the surrounding substrate.

Step 6: Branching

Symterra VFU allows you to branch the system to optimize the installation. Use the provided Y-Connectors to create branches as required.



Branching Specifications:

- Branch lengths should NEVER exceed a length of 15 ft (4.6 m) per section.
- Crimp pliers should be used to connect lines with line extenders.
- Use a male/female crimp connector where needed.
- Connect line extenders with Y-connectors to complete the branching.

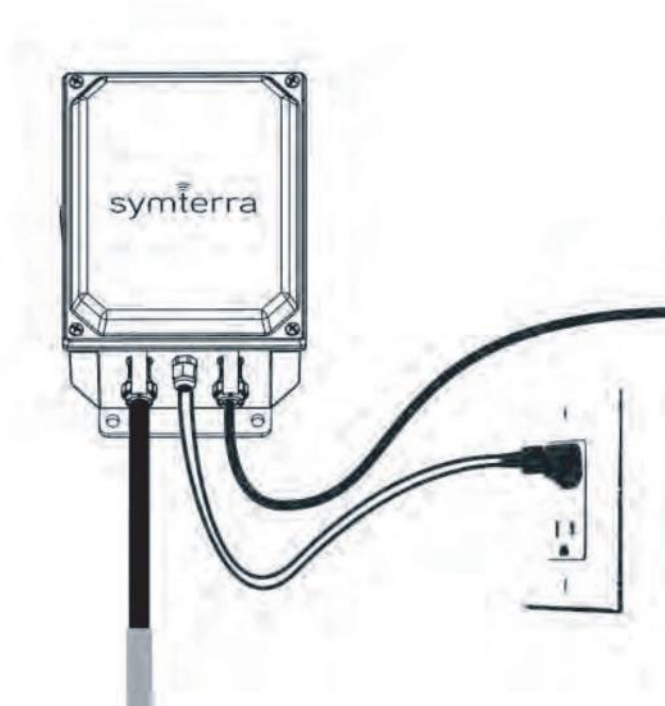
NOTE: To yield maximum performance from the Symterra system, please follow the recommendations in the table below.

Total System Length	Maximum Combined Branching Length			
	Metal	Concrete	Wood	Adobe
100ft / 30m	30ft / 9m	30ft / 9m	40ft / 12m	40ft / 12m
200ft / 60m	60ft / 18m	60ft / 18m	80ft / 24m	80ft / 24m
300ft / 90m	90ft / 27m	90ft / 27m	120ft / 36m	120ft / 36m
400ft / 120m	120ft / 36m	120ft / 36m	160ft / 48m	160ft / 48m
500ft / 150m	120ft / 36m	150ft / 45m	180ft / 54m	180ft / 54m
600ft / 180m	120ft / 36m	150ft / 45m	200ft / 60m	200ft / 60m

Example: For concrete, install with 200 linear ft, the branch length should not exceed 60ft.

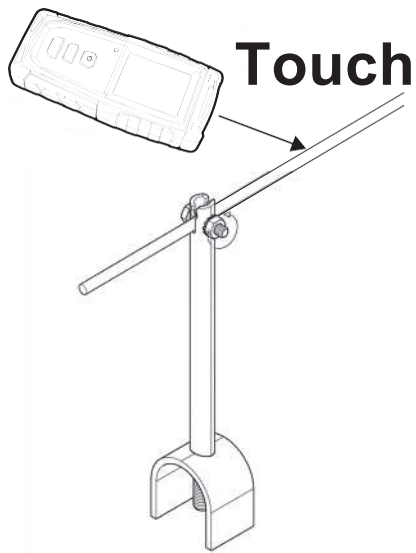
Step 7: Powering the System ON

Before the Symterra system is powered on, ensure all connections are secure, branch lengths comply with guidelines, proper grounding has taken place and components are properly installed. **Once this is completed, it is now safe to plug the Control Hub into the power source.**



Step 8: Final Checks & Testing

To verify the system is on and working properly, test the system using the Symterra Signal Detector to confirm that the signal range is active across all sections.



- Ensure the meter is charged to 50%
- Select AVG mode
- Press the button down on the detector while holding the top of the meter in contact with the emitter line. There will be an audible 'beep' when the button is pressed.
- Back your arm away from the Emitter line. When the beeping stops, the signal is no longer present.
- The signal should be detectable from a distance of at least 1ft/30cm away from the line.
- Values will vary based on substrate and length of run. Use the values below as a guideline.

Location	Value in V/m
At the hub	1200+
Mid-point	900+
End of emitter line	600+

5. OPERATING INSTRUCTIONS

Before using the Symterra VFU System, please read the **IMPORTANT SAFETY INSTRUCTIONS** on page 4.

5.1 Starting the System

1. Confirm that all emitter lines are properly connected and that support structures are securely fastened.
2. Verify that the system has been grounded in accordance with local codes and Symterra's grounding procedure.
3. Plug the Control Hub into a grounded electrical outlet.
4. Use the Symterra Signal Detector to confirm the system is transmitting a deterrent signal. Hold the detector 1 inch (2.5 cm) from the Emitter Line and listen for a beep. Back away slowly until the signal is no longer detected — typically at a distance of 12 inches (30 cm).

The system will operate continuously while powered.

5.2 Controls and User Interface

- The Symterra VFU System has no external switches or user-operated controls. The system activates automatically when connected to power.
- The Control Hub must not be opened or tampered with. Servicing or internal inspection must only be carried out by Symterra-authorized personnel.

5.3 Intended Use

- This system is intended for commercial use only. It is not designed for household environments.

5.4 Approved Accessories

- Only Symterra-approved components and accessories must be used with this system. Using non-certified emitters, connectors, or extensions may result in system failure, personal injury, and loss of warranty coverage.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Symterra Control Hub fails to turn on	- Poor power cable connection. - The GFCI is switched off.	- Use a non-contact voltage meter to check the power connections. - Reset the circuit interrupter on the GFCI.
The system does not repel birds.	- No power. - Bad signals.	- Check that Erikhill Meter is getting v/m value. - Check that a problematic segment is connected correctly if a signal is undetected. - Check to see if the system is grounded or not. Ensure the grounding rod is secured and has a clear, uninterrupted connection to the Control Hub. - Ensure that the support heights align with the provided table, and verify that the emitter line does not touch the substrate or come too close, as this could degrade the deterring signal.



Ensure the fuses are intact. If necessary, replace fuses only with appropriate replacements rated to:

- Current: 500 mA
- Voltage AC: 250 Volts
- Breaking current capacity @ 250 Volts: 35 A
- Size: 0.205 x 0.787 inches / 5 mm x 20 mm
- Response time: Slow Blow

IMPORTANT!



If you encounter any issues, please contact Symterra Support by emailing us at: solutions@bird-x.com.

7. WARRANTY

Seller warrants to Customer that for a period of twenty-four (24) months from the date of shipment by Seller, all Goods will:

- (a) be free from any defects in workmanship, material and design;
- (b) conform to applicable specifications and other requirements specified by Seller;
- (c) be fit for their intended purpose and operate as intended;
- (d) be merchantable;
- (e) be free and clear of all liens, security interests or other encumbrances.

Customers may return Goods for a full refund (less shipping and restocking fee) within thirty (30) days from the date of shipment by Seller if not completely satisfied with the performance of the Goods. This warranty is valid only for the original purchaser and is non-transferable. Proof of purchase, such as a dated sales receipt or invoice, may be required to obtain warranty service. The warranty does not cover damages resulting from misuse, improper installation, accidents, unauthorized repairs, alterations, or acts beyond the control of Bird-X. All returns require an RMA#. Contact solutions@bird-x.com to obtain an RMA#

7.1 Claims Process

If the product fails due to defects in materials or workmanship during the coverage period, we will replace the product at no additional cost. Replacement products may be new or refurbished at our discretion.

To initiate the claims process, please contact our Customer Care Team by sending an email to solutions@bird-x.com and a Bird-X representative will contact you within three (3) business days. It is imperative to include the following information in your correspondence:

- Date of System Installation & Date of Noted Issue
- Serial Number(s)
- Please include an image of the unit in your claim to verify the unit is free of damage.
- Shipping Address
- Proof of purchase of the extended warranty coverage

If your Claim is approved, a Return Shipping Label will be provided to you. You must return the faulty unit before the replacement unit will be sent to the address provided.

Lost/Damaged Shipments: In the event that a defective unit is being returned under this warranty, the customer is not responsible for any loss or damage that may occur during shipping. Once the defective unit is handed over to the shipping carrier, liability for the safe and timely delivery of the unit is transferred to the shipping carrier and/or Bird-X. If the shipping carrier loses the unit or if it is damaged in transit, the customer will not be held liable. Bird-X will ensure that the customer receives either a replacement unit or a full refund, as outlined in the warranty terms.

7.2 Disclaimer

Bird-X assumes no liability for improper installation, misuse, or failure to follow safety guidelines. Performance may vary based on environmental conditions, such as rain and snow, and site-specific factors. The user is responsible for ensuring compliance with local regulations. The manufacturer disclaims all warranties, express or implied, except as explicitly stated in the product warranty.