

Mini Climate Control System



Shown with optional WiFi

Contents

Introduction	2	Logging Interval	13
Quick Start Guide	3	COMM Mode	13
Installation Instructions	4	Device Address	14
Installing the RX4i Relay	4	Manufacturing Info	14
Electrical Connections	4	Display Back Light Timer	14
Conduit Installation	5	Outlet / Relay Control	15
Cord Kit Installation	5	Run/Stop	15
Installing the SXE Environment Sensor	6	Setup a Sensor Control	16
GrowNET Connection to RX4i Intelligent Relay	6	Setup a Cycle Timer	17
Operation Instructions	7	Setup a 24-Hour Timer	17
Definitions	7	Maintenance & Service	18
LCD Menu Operation	8	Cleaning	18
High / Low History	8	Fan Filter	18
Graphing	8	Fan Replacement	18
Main Menu	9	CO2 Sensor Upgrade	19
Alarms Menu	9	Technical Information	20
Alarms Configuration	9	Specifications	20
Alarm Buzzer	10	Storage and Disposal	20
Calibration Menu	10	Warranty	20
Temperature or Humidity Calibration	10		
CO2 Calibration	11		
Clear Calibration	11		
Setup Menu	12		
Time / Date	12		
Units	12		

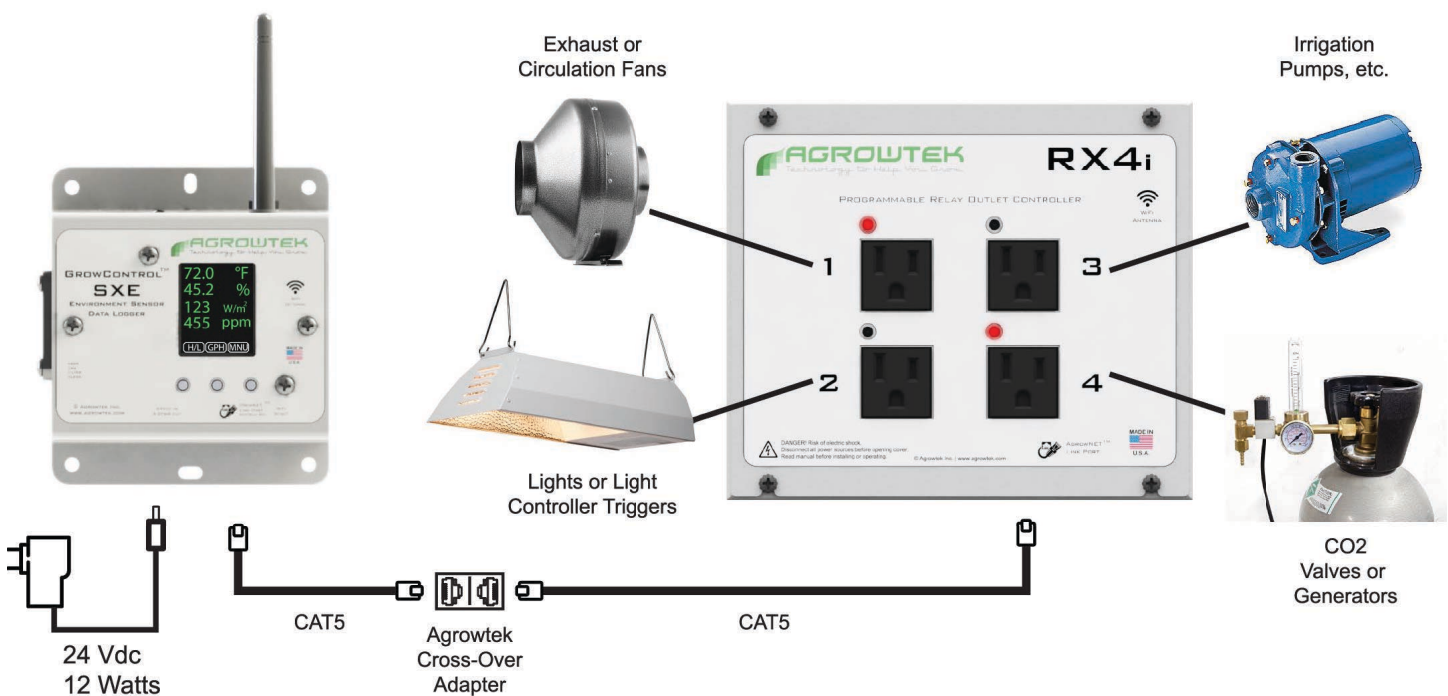
Introduction

GrowControl MCX climate control systems are powerful, autonomous set-point controllers.

The SXE sensor connects directly to a RX4i four-outlet intelligent relay to operate up to four devices independently. Control outlets based on temperature, humidity or CO2 values as well as 24-hour and repeat cycle timers. Set points have day/night values which are selected based on the reading of the light sensor located on the top of the SXE unit.

A built-in aspirator fan provides a continuous flow of air over the sensors for the most accurate readings and fastest response to changing conditions. An air filter is included which is removable and washable.

SXE environment sensor's built-in color display provides an easy to use interface for monitoring the sensor readings and configuring the control settings. Internal data logging memory provides a 120 point graphical history on the screen and the entire 21,600 data point history can be downloaded using the LX1 USB Agrow-LINK and free computer software.



Quick Start Guide

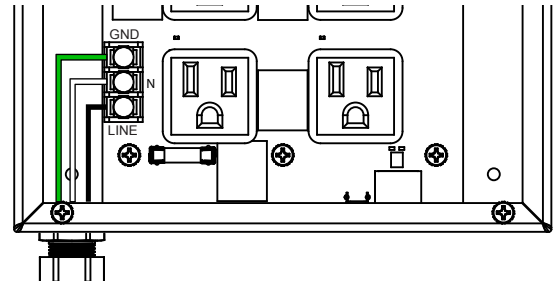
1. Mount the Relay & Sensor

Remove the cover of the relay and use the mounting holes in the rear of the enclosure to securely mount to a wall surface near the AC power supply source. Mount the SXE climate sensor to a wall surface that is accessible and has good air circulation. *See mounting instructions.*

2. Connect Power to Relay

If the MCX4 was ordered with the power cord kit, simply plug the cord into a 120Vac wall outlet.

If there is no power cord installed on the RX4i, one may be installed (14AWG minimum) or the RX4i may be directly wired to a 15A circuit breaker using standard 1/2" EMT conduit and fittings.

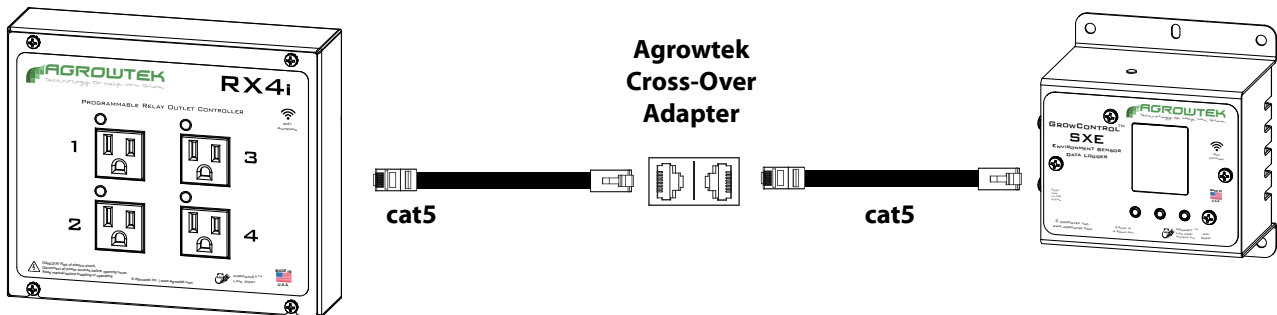


3. Connect the GrowNET Cable

Connect the sensor to the relay using the included cross-over ethernet cable as shown in the diagram.



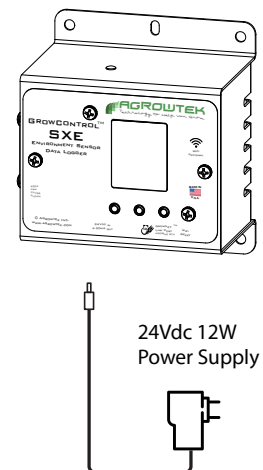
IMPORTANT! ONLY use cross-over adapters provided by Agrowtek.
Incorrect cross-over adapters or cables can cause damage to the equipment.



4. Connect Power to the SXE Sensor

Plug the 24Vdc power adapter into the SXE and a 120Vac wall outlet. The SXE sensor will power-on and connect to the RX4i relay.

Follow the LCD Menu Operation instructions for details on setting up the relays to operate based on sensor readings and timers.



Installation Instructions

General Notes:

1. Install with the connections facing down to reduce the risk of water permeating the enclosures.
2. For indoor installation only. Enclosures are not water-proof.
3. Do not place sensor in direct sunlight.

⚠ Disconnect power from all devices before connecting or disconnecting cables to prevent damage to components.

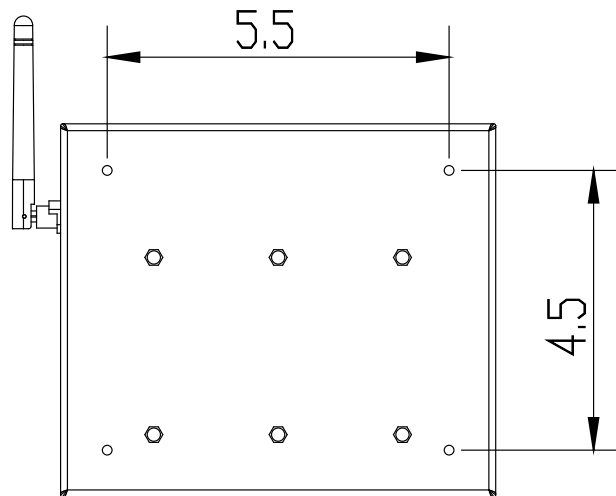
Installing the RX4i Relay

The RX4i intelligent relay is to be installed to a vertical wall surface using the four mounting holes provided in the rear of the enclosure.

1. Remove the front cover panel using caution not to damage the LED light pipes.
2. Locate the relay box and fasten to a wall. Use wall anchors if necessary. Ensure the mounting is secure. *Hardware is not provided. Drywall screws are recommended.*

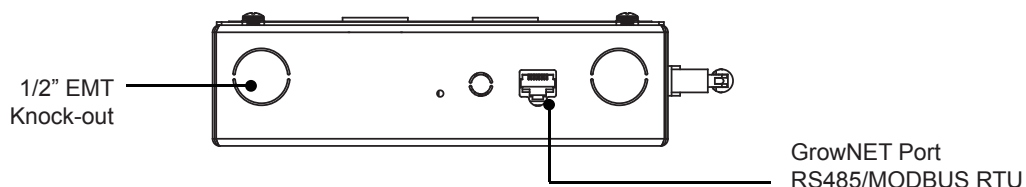
Ensure all dust and contaminants have been blown out of the enclosure.

⚠ Do NOT drill holes into the enclosure or enlarge holes. Metal chips from drills can cause short circuits on the PCB.



Electrical Connections

The RX4i intelligent relay requires a 120Vac power source from a 15A branch protected circuit. A built-in DC power supply operates the electronics in the RX4i from the 120Vac input. Terminal blocks are provided on the left hand side of the circuit board. Standard 7/8" diameter knock-outs are provided on the bottom of the enclosure for 1/2" EMT conduit fittings.



Conduit Installation

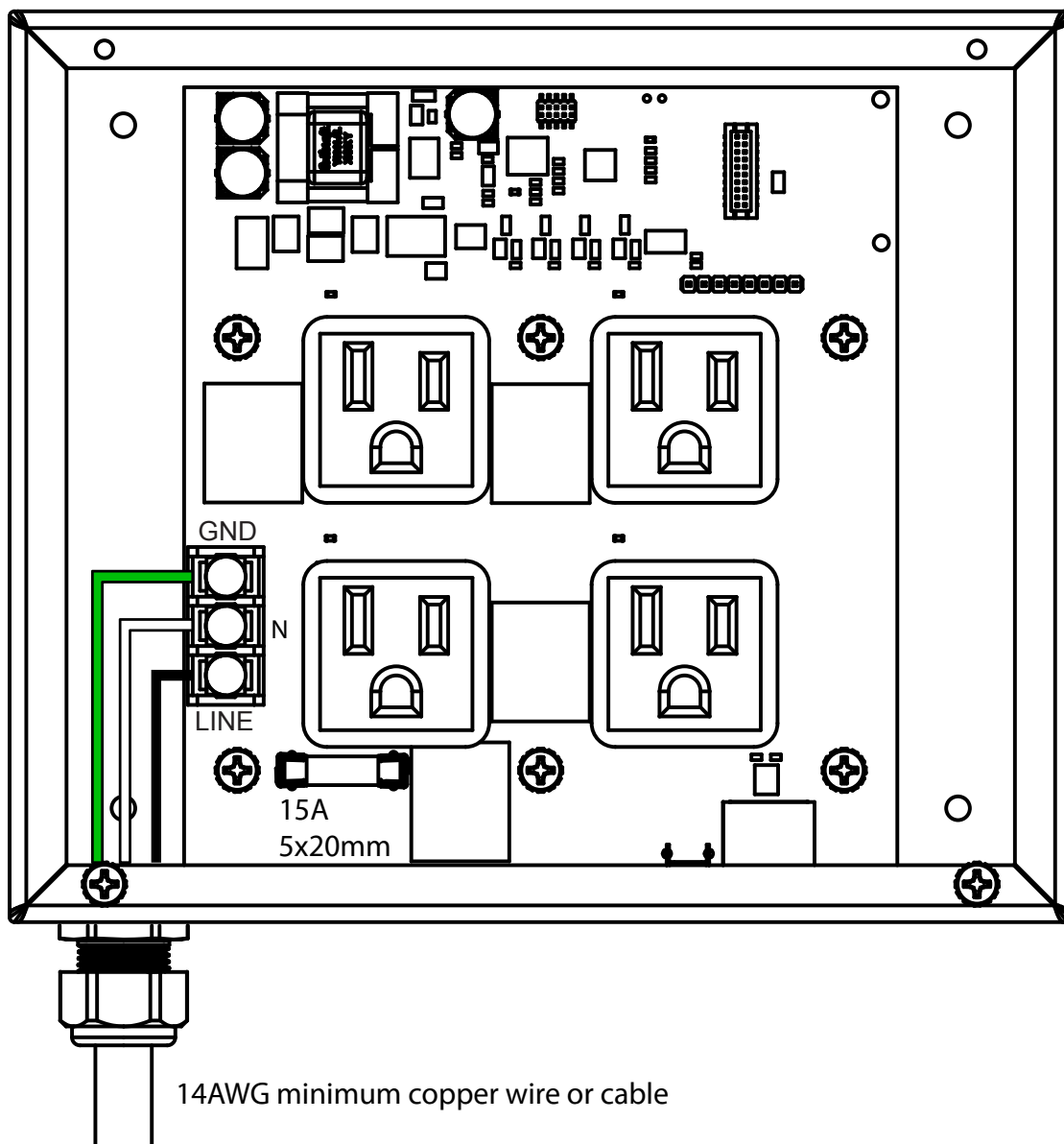
1. Remove the left hand knock-out.
2. Install a 1/2" EMT conduit fitting and fit the conduit.
3. Wire in accordance with the connection diagram and national and local electrical codes.

Cord Kit Installation

1. Remove the left hand knock-out.
2. Install the provided cord grip into the knock-out hole.
3. Thread the cord wire through the cord crip up to the terminal block.
4. Make connections in accordance with the connection diagram.
5. Re-install the cover then plug the power cord into a 120V 15A receptacle.

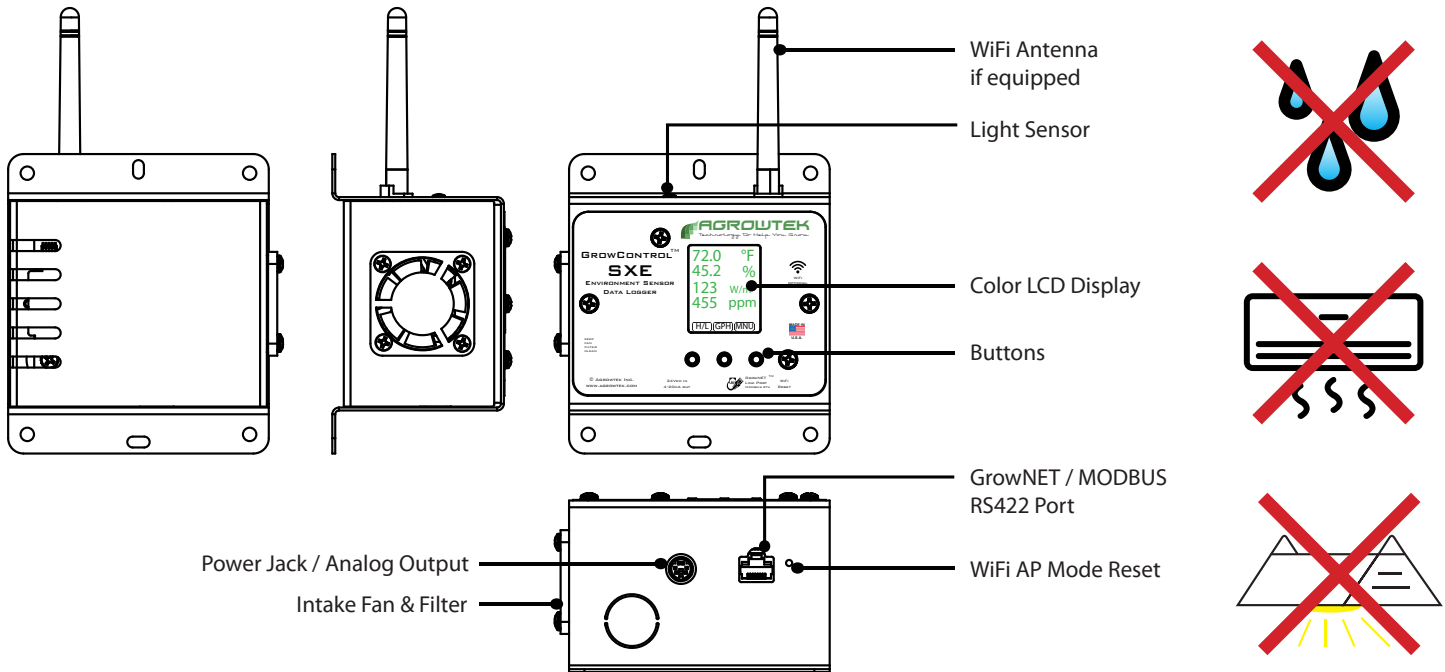


DANGER! Risk of injury or death from electric shock; disconnect all power before wiring or service.



Installing the SXE Environment Sensor

SXE is intended for wall mounting near eye level using the mounting flanges and holes provided. Install in a location with adequate access to the environmental conditions and away from extreme influences such as ventilation ducts, doorways, windows or heat generating equipment such as lights and ballasts. Ensure the unit is easy to see and access for maintenance and adjustments. Do not install in direct sunlight.

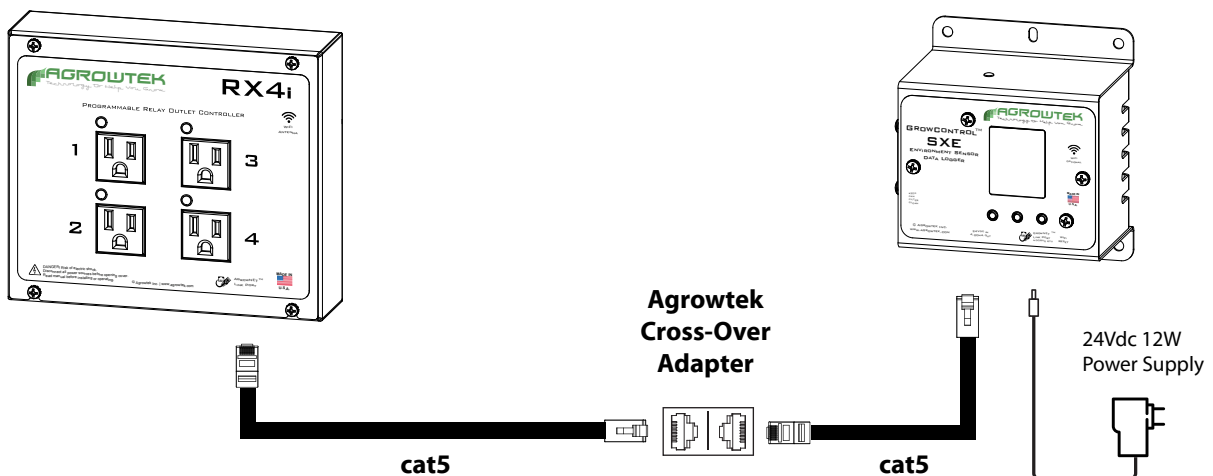


GrowNET Connection to RX4i Intelligent Relay

A direct-link connection between a SXE sensor and RX4i relay requires Agrowtek's cross-over adapter.



IMPORTANT! ONLY use cross-over adapters provided by Agrowtek.
Incorrect cross-over adapters or cables can cause damage to the equipment.



Operation Instructions

The SXE environment sensor continuously monitors the temperature, humidity and CO2 (if equipped) and a light sensor on the top of the unit detects day or night periods. Each outlet (relay) may be assigned a temperature, humidity or CO2 control function, as well as a timer function if desired. Equipment such as heaters, fans, pumps, CO2 valves, etc. can be directly plugged into the receptacles on the RX4i relay for sensor based control.

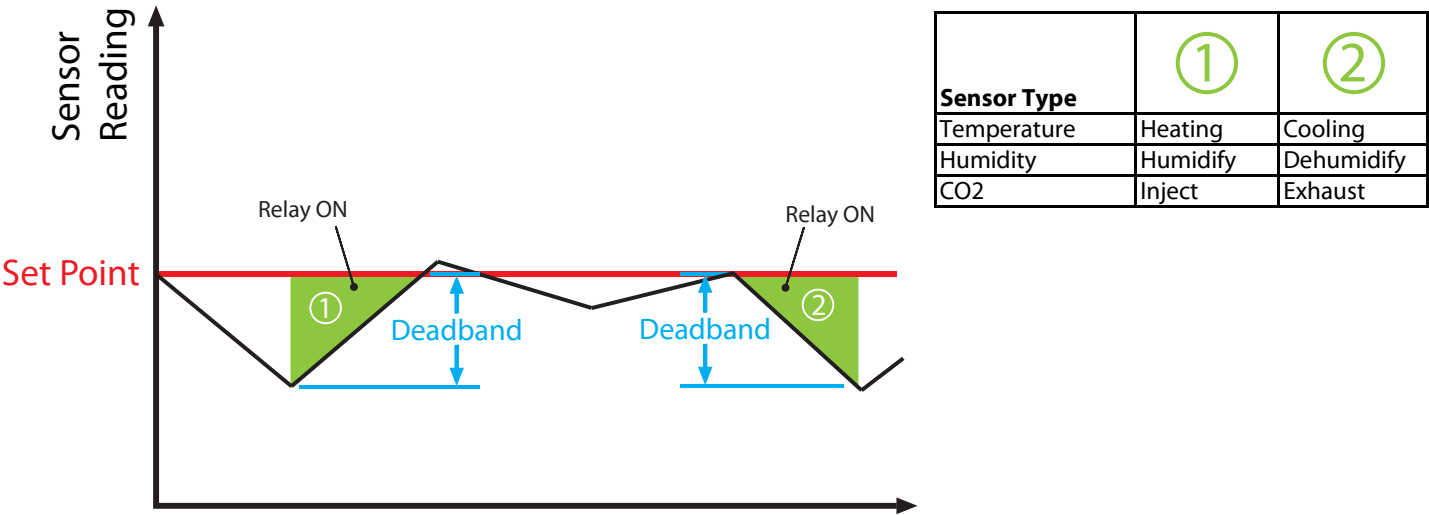
Definitions

Set Point

A “set point” is what the system is looking to achieve by controlling the outlet or relay, such as maintaining a temperature of 72°F.

Dead Band

The “dead band” is the amount of drift allowed in a sensor reading before the control function activates.



Mode

Sensor controls can be used in various control modes such as “HEATING” mode or “COOLING” mode. The available modes depend on the sensor type selected for the control (see chart above.)

Cycle Timer

Cycle timers operate in continuous repeating on/off cycles. Separate times are set for the on and off durations such that you may have an on or off period as short as 1 second and as long as 18 hours. Each outlet relay may be configured with a unique cycle timer.

24hr Timer

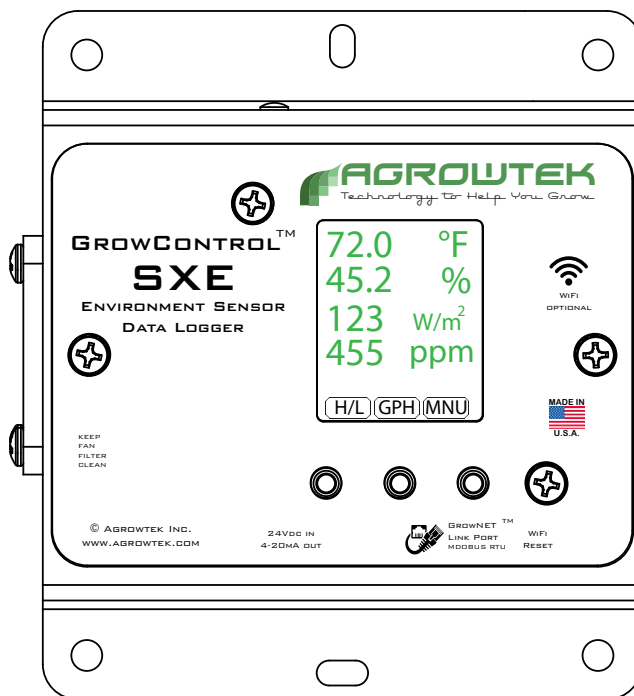
24-hour timers operate on the RTC value based on the time of day. Each timer has one on and one off time. The time is backed-up by an internal rechargeable coin cell battery backup that keeps the RTC time counting when power is off to the SXE sensor.

LCD Menu Operation

The main screen displays the real-time sensor readings from the attached sensors.

Three buttons are located beneath the screen. Each button is labeled at the bottom of the display to describe it's function in the current screen or menu.

The main screen displays the real-time sensor readings from the attached sensors. Each button is labeled at the bottom of the display to describe it's function on the current screen or menu.



High / Low History

H/L

Simple minimum and maximum recorded values are stored until the user resets the values to the current readings. To view the minimum and maximum values since the last reset, press the button labeled **H/L**.

To clear the min/max history, press the **RST** button to reset. The min and max values will all be set to the current readings and will update with higher or lower readings as they occur.

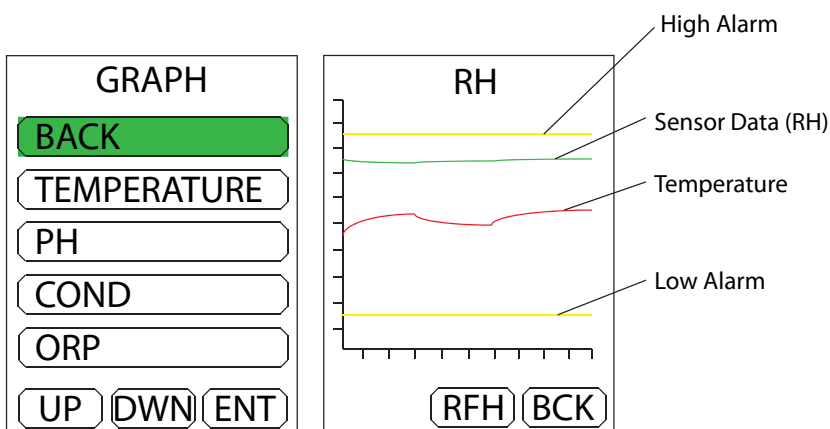
LOW HIGH		
68.4	72.0	°F
23.1	45.2	%
0	123	w/m ²
455	1255	ppm
EXIT		RST

Graphing

GPH

The display can graph the most recent 120 data points from the sensor's internal data point memory. With the default logging interval of 60 seconds, the graph displays the last two hours of data.

The sensor value is plotted in green. Temperature, if overlaid on the plot, is red. Alarm levels as set by the user are plotted in yellow. Pressing the **RFH** button refreshes the data and replots the graph.



Main Menu

MNU

The main menu is how the alarms are set, sensors are calibrated and general settings such as time, date and units are configured.

If a dosing pump is directly connected to the SXHM GrowNET port, the pump settings are also accessed by the main menu.

Use the **UP** or **DWN** buttons to navigate the menu.

Use the **ENT** button to enter a selection.

MENU

EXIT

ALARMS

CALIBRATION

SETUP

PUMPS

UP DWN ENT

Alarms Menu

MNU ► ALARMS

High and low alarm set points may be configured for each sensor value to activate an internal buzzer or send alerts with the optional wifi module.

The out-of-range value will be displayed in **red** to indicate the cause for the alarm.

Additionally, alarm limits are plotted on the graphs to indicate values are within the desired range.

72.0 °F

76.2 %

123 w/m²

455 ppm

H/L GPH MNU

Alarms Configuration

MENU

EXIT

ALARMS

CALIBRATION

SETUP

UP DWN ENT

1. Select **ALARMS** from the main menu.

ALARMS

BACK

TEMPERATURE

HUMIDITY

LIGHT

CO2

UP DWN ENT

2. Select a sensor to configure set points.

ALARM

BACK

LOW: 0.0

HIGH: 0.0

ALARM: OFF

UP DWN ENT

3. Select the setting to adjust.

SET LOW

BACK

+0.1

-0.1

0.0°F

UP DWN ENT

4. Adjust to the desired value. Hold **UP** or **DWN** to jog the value.

Alarm Buzzer

ALARM

BACK

LOW: 0.0

HIGH: 0.0

ALARM: OFF

UP DWN ENT

1. Select **ALARM: OFF**

SET ALARM

BACK

SET ON

SET OFF

OFF

UP DWN ENT

2. Select **SET ON** then press **BACK** to exit.

To disable the alarm buzzer, set the alarm to OFF.

Calibration Menu

MNU ► CALIBRATION

Calibration can be performed for each sensor with the LCD interface using either standard calibration wizards, or advanced manual calibration methods for non-standard calibration solutions.

The date of the last calibration for each sensor is stored in memory and displayed at the start of each calibration wizard.

MENU

EXIT

ALARMS

CALIBRATION

SETUP

UP DWN ENT

CALIBRATION

BACK

TEMPERATURE

HUMIDITY

CO2

CLEAR ALL

UP DWN ENT

Temperature or Humidity Calibration

MNU ► CALIBRATION ► TEMPERATURE

CALIBRATION

BACK

CALIBRATE

ADVANCED

UP DWN ENT

1. Select **CALIBRATE** from the temperature calibration menu.

TEMPERATURE

LAST CALIBRATION

10/19/2017

PRESS NEXT TO

ADJUST

TEMPERATURE

READING.

EXIT NEXT

2. Press **NEXT** to continue.

OFFSET

BACK

+0.1

-0.1

72.2°F

UP DWN ENT

3. Adjust to the desired value. Hold **ENT** to jog the value by 10x.

CONFIRM?

OLD

68.1 °F

NEW

72.2 °F

YES NO

4. Confirm the new reading or press **NO** to cancel.

CO2 Calibration

MNU ► CALIBRATION ► TEMPERATURE

CALIBRATION

BACK

CALIBRATE

ADVANCED

UP DWN ENT

1. Select **CALIBRATE** from the temperature calibration menu.

CO2

LAST CALIBRATION
10/19/2017

PUT SENSOR IN
OUTDOOR AIR.

EXIT NEXT

2. Press **NEXT** to continue.


CO2

389 ppm

WAIT FOR READING
TO STABILIZE THEN
PRESS DONE.

EXIT DNE

3. Wait 5-10 minutes and allow reading to normalize. Then press done to complete the calibration.

 **Keep away from the sensor during normalization (step 3) and press the done button upon approaching the sensor to avoid disturbing the calibration. Do not breathe near the sensor or locate near individuals, vehicles or other sources of carbon dioxide during calibration.**

Clear Calibration

MNU ► CALIBRATION ► NEXT

Calibration can be restored to factory defaults by selecting **CLEAR ALL**.

CALIBRATION

BACK

TEMPERATURE

PH

COND

CLEAR ALL

UP DWN ENT

1. Select **CLEAR ALL** from the calibration menu.

RESTORE TO
FACTORY
CALIBRATION?

YES NO

2. Press **YES** to restore factory calibration.

Setup Menu

MNU ► SETUP

The setup menu is where the time and date are set, the units are configured, logging interval is adjusted and advanced communications settings are available.

SETUP

BACK

TIME/DATE

UNITS

LOG INTERVAL

NEXT

UP DWN ENT

SETUP

BACK

COMM

DEVICE ADD

MFG INFO

BACKLIGHT

UP DWN ENT

Time / Date

MNU ► SETUP ► TIME/DATE

Sensors include a precision real-time clock with battery back-up for time-stamping the data log information with the time and date. The last calibration for each sensor is also time stamped.

SETUP

BACK

TIME/DATE

UNITS

LOG INTERVAL

NEXT

UP DWN ENT

1. Select **TIME/DATE** from the setup menu.

TIME/DATE

BACK

TIME

DATE

UP DWN ENT

2. Select **TIME** or **DATE** to adjust.

TIME

13:37:51

NXT + EXT

3. Use **NXT** to select the value to adjust. Use **+** to increment the value.

DATE

10/20

2017

NXT + EXT

4. Use **EXT** to exit the menu.

Units

MNU ► SETUP ► UNITS

Temperature and Conductivity may be displayed in alternate units.

Select a sensor value to change the default display and working units.

SETUP

BACK

TIME/DATE

UNITS

LOG INTERVAL

NEXT

UP DWN ENT

UNIT SELECT

BACK

TEMPERATURE

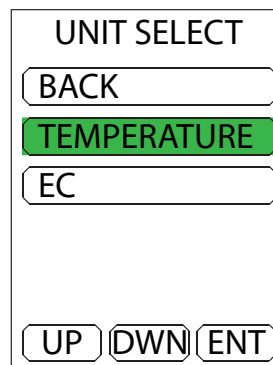
EC

UP DWN ENT

Configure temperature units:

Temperature may be displayed in °F or °C.

Note: Check alarm settings when converting temperature units.



UNIT SELECT

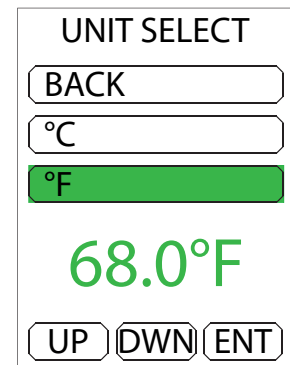
BACK

TEMPERATURE

EC

UP DWN ENT

1. Select **TEMPERATURE** from the units menu.



UNIT SELECT

BACK

°C

°F

68.0°F

UP DWN ENT

2. Select the desired units and press **ENT**.

Logging Interval

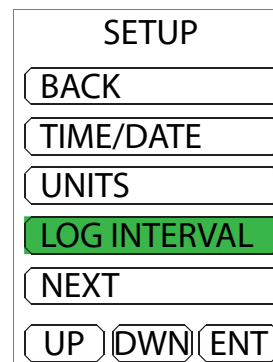
MNU ► SETUP ► LOG INTERVAL

Adjust the interval for recording data points in the on-board memory. Acceptable values are from 1 - 65535 seconds.

21,600 data points can be stored for each sensor value. The most recent 120 data points are shown on the graphical history.

The entire data history may be downloaded from the sensor to a .csv file with the LX1 USB AgrowLINK and free software.

Note: 60 second intervals = 15 days of data storage.



SETUP

BACK

TIME/DATE

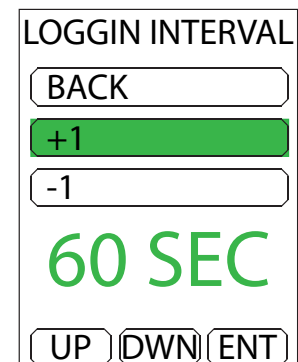
UNITS

LOG INTERVAL

NEXT

UP DWN ENT

1. Select **LOG INTERVAL** from the setup menu.



LOGGIN INTERVAL

BACK

+1

-1

60 SEC

UP DWN ENT

2. Adjust the value then select **BACK**.

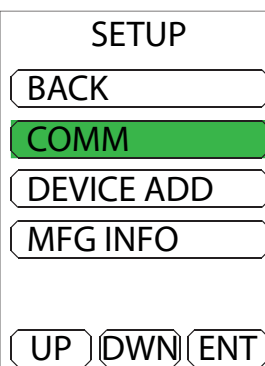
COMM Mode

MNU ► SETUP ► NEXT ► COMM

COMM mode specifies whether the sensor is a normal passive device or "mini-master" device.

NORMAL Use with GrowControl master controller systems or stand-alone and data logging applications.

MINI-MASTER Use with MCX mini-climate control system. (GrowNET cross-over adapter required.)



SETUP

BACK

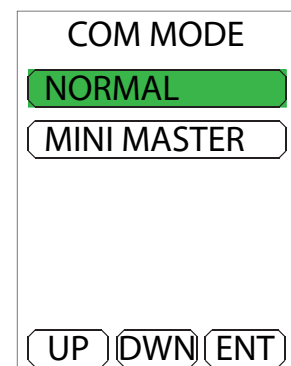
COMM

DEVICE ADD

MFG INFO

UP DWN ENT

1. Select **COMM** from the setup menu.



COM MODE

NORMAL

MINI MASTER

UP DWN ENT

2. Select a mode and press **ENT**.

Device Address

[MNU] ► [SETUP] ► [NEXT] ► [DEVICE ADD]

Sensors are digitally addressable from 1-249 and will be assigned an address automatically by Agrowtek's control systems, or can be configured manually for MODBUS applications via the menu.

NOTE: All of Agrowtek's devices use address 254 as a broadcast address.



NOTE: Address must be set to 0 for Relay control. The "RELAY" menu item will not appear unless the device address is set to 0.

SETUP

[BACK]

[COMM]

[DEVICE ADD]

[MFG INFO]

[UP] [DWN] [ENT]

1. Select **DEVICE ADD** from the setup menu.

DEVICE ADDRESS

[BACK]

[+1]

[-1]

0 Addr

[UP] [DWN] [ENT]

2. Adjust the value then select **BACK**.

Manufacturing Info

[MNU] ► [SETUP] ► [NEXT] ► [MFG INFO]

Manufacturer information such as serial number, date of manufacture, hardware and firmware versions can be read from the MFG INFO page.

SETUP

[BACK]

[COMM]

[DEVICE ADD]

[MFG INFO]

[UP] [DWN] [ENT]

SERIAL NUMBER:
17090554

DATE OF MFG:
09/15/17

HW VERSION:
C

FW VERSION:
02.03.84

[EXIT]

Display Back Light Timer

[MNU] ► [SETUP] ► [NEXT] ► [BACKLIGHT]

The display back light can be programmed to turn off after a specified time of inactivity from the last time a button is pressed.

The delay can be set from 1-255 minutes, or set to 0 to disable the back light timer and keep the display on continuously.

SETUP

[BACK]

[COMM]

[DEVICE ADD]

[MFG INFO]

[BACKLIGHT]

[UP] [DWN] [ENT]

BACKLIGHT

[BACK]

[+1]

[-1]

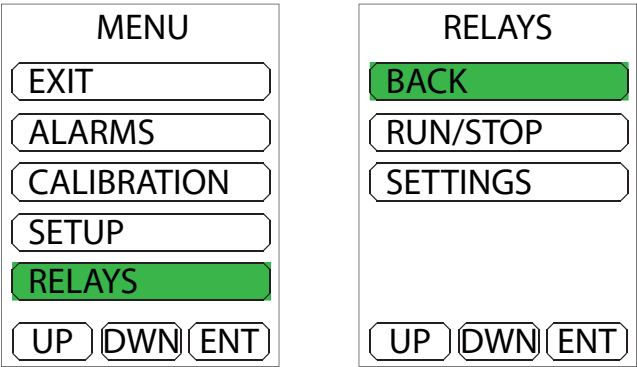
60 Min


[UP] [DWN] [ENT]

Outlet / Relay Control

MNU ► RELAYS

The RELAYS menu is displayed when the environment sensor is connected to a relay and contains all of the configuration settings pages.



 The “RELAYS menu item will not appear unless the communication mode is set to “MINI-MASTER” and the device address is set to “0” (see COMM MODE and DEVICE ADDRESS.)

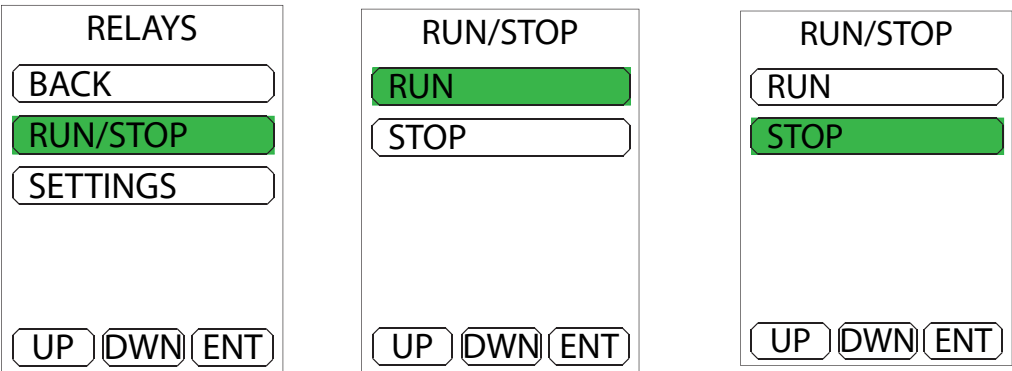
Run/Stop

MNU ► RELAYS ► RUN/STOP

The relay device must be placed into RUN mode for autonomous operation to take place.

All of the relays may be immediately disabled and turned off by placing the relay device into STOP mode.

The relay will operate according to the programmed parameters unless the relay is put into STOP mode or the sensor becomes disconnected from the relay after 10 seconds. If in RUN mode, the relay will continue operating after a power outage when the power is restored.



The RUN/STOP menu enables or disables the pumps

Select **RUN** to allow the relays to operate based on your settings.

Select **STOP** to disable the relays from running automatically and turn off all relays.

Setup a Sensor Control

[MNU] ► [RELAYS] ► [SETTINGS]

Each relay may be configured for set-point operation based on a sensor value (see “Definitions” section for details.) When light sensor reading = 0 W/m2, it is considered **night**.

RELAYS

BACK

RUN/STOP

SETTINGS

UP DWN ENT

1. Select **SETTINGS** from the relays menu.

RELAYS

BACK

RELAY 1

RELAY 2

RELAY 3

RELAY 4

UP DWN ENT

2. Select a relay to configure.

RELAY 1

BACK

SENSOR

CYCLE TIMER

24-HR TIMER

UP DWN ENT

3. Select **SENSOR** to setup a sensor control.

SENSOR

BACK

TYPE

SET POINT

DEADBAND

MODE

UP DWN ENT

4. Select **TYPE** to choose the sensor type.

TYPE

NONE

TEMP

RH

CO2

UP DWN ENT

5. Select the desired sensor type.

SENSOR

BACK

TYPE

SET POINT

DEADBAND

MODE

UP DWN ENT

6. Select **SET POINT**.

SET POINT

BACK

DAY

NIGHT

UP DWN ENT

7. Select **DAY** or **NIGHT** to adjust the settings. Enter values for both.

DAY

BACK

+0.1

-0.1

68.0 °F

UP DWN ENT

8. Adjust the set points to the desired values.

SENSOR

BACK

TYPE

SET POINT

DEADBAND

MODE

UP DWN ENT

9. Select **DEADBAND** to configure the sensitivity of the control.

DEADBAND

BACK

+0.1

-0.1

2.0 °F

UP DWN ENT

6. Set the deadband to the desired value.

SENSOR

BACK

TYPE

SET POINT

DEADBAND

MODE

UP DWN ENT

11. Select **MODE** to define the control mode for the sensor.

MODE

HEATING

COOLING

HIGH TEMP

UP DWN ENT

12. Set the desired control mode for the type of sensor selected.

Setup a Cycle Timer

[MNU] ► [RELAYS] ► [SETTINGS]

Each relay may be controlled by a “repeat cycle timer” which will turn on the relay for a set time, then off for a set time in a continuously repeating cycle. If a sensor control or 24-hour timer are also configured on the same relay number, they may activate the relay even during the cycle timer’s ‘off’ period.

RELAYS

BACK

RELAY 1

RELAY 2

RELAY 3

RELAY 4

UP DWN ENT

1. Select a relay to configure.

RELAY 1

BACK

SENSOR

CYCLE TIMER

24-HR TIMER

UP DWN ENT

2. Select **CYCLE TIMER** to setup a timer control.

CYCLE TIMER

BACK

ON TIME

OFF TIME

UP DWN ENT

3. Select **ON** or **OFF** to edit the timer values.

TIMER

BACK

+1

-1

10 SEC

UP DWN ENT

4. Adjust the times to the desired values.

Setup a 24-Hour Timer

[MNU] ► [RELAYS] ► [SETTINGS]

Each relay may be controlled by a “24-hour timer” which will turn the relay on at a set time of day, and off at a later time of day. If a sensor control or cycle timer are also configured on the same relay number, they may activate the relay even during the 24-hour timer’s ‘off’ period.

RELAYS

BACK

RELAY 1

RELAY 2

RELAY 3

RELAY 4

UP DWN ENT

1. Select a relay to configure.

RELAY 1

BACK

SENSOR

CYCLE TIMER

24-HR TIMER

UP DWN ENT

2. Select **24-HR TIMER** to setup a timer control.

24-HR TIMER

BACK

ON TIME

OFF TIME

UP DWN ENT

3. Select **ON** or **OFF** to edit the timer values.

ON TIME

08:30:00

NXT + EXT

4. Adjust the times to the desired values.

Maintenance & Service

Sensors require periodic maintenance to ensure proper performance. Relays do not require maintenance.

Cleaning

Exterior and label surfaces may be wiped with a damp cloth with mild dish detergent, then wiped dry.

Fan Filter

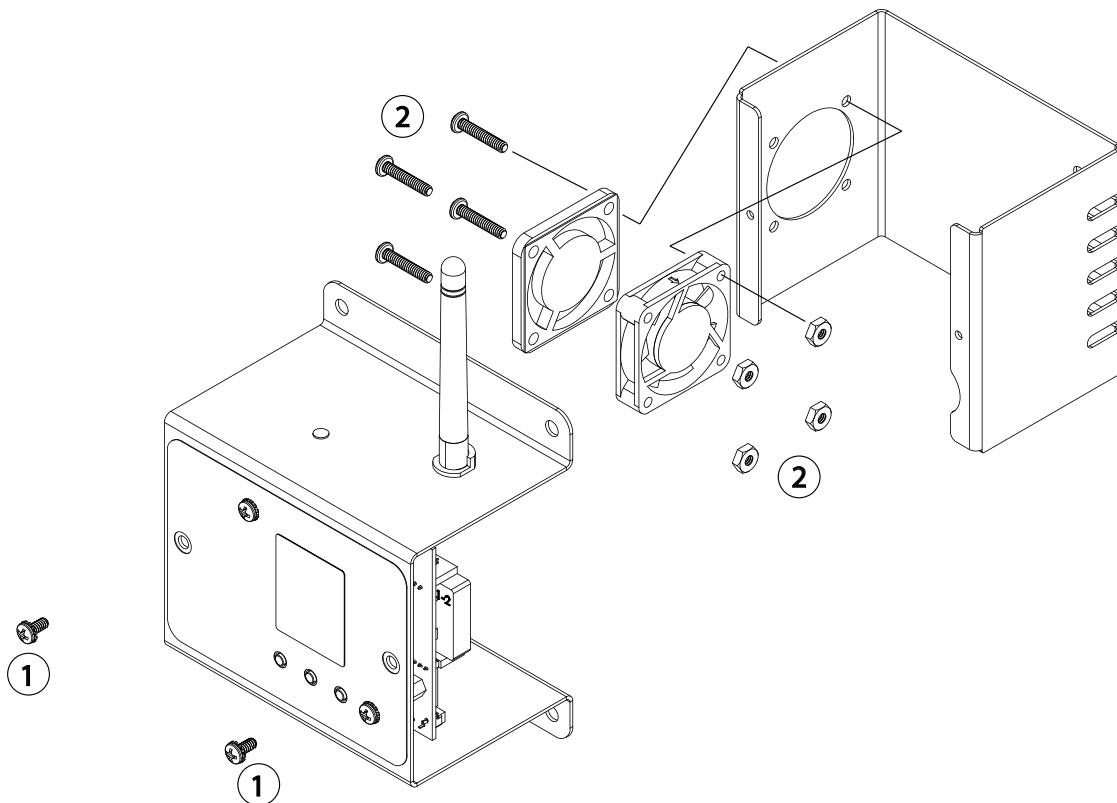
The fan air filter should be periodically removed for cleaning. **It is NOT necessary to remove the fan.**

1. Pry the retaining grate out using a small flat blade eye-glass screwdriver or tip of a pocket knife.
2. Remove the foam filter and replace, or clean with mild dish detergent and water, then pat dry.
3. Re-install the foam filter and grate by gently snapping the grate back into place.

Fan Replacement

The fan may require replacement in the event of failure.

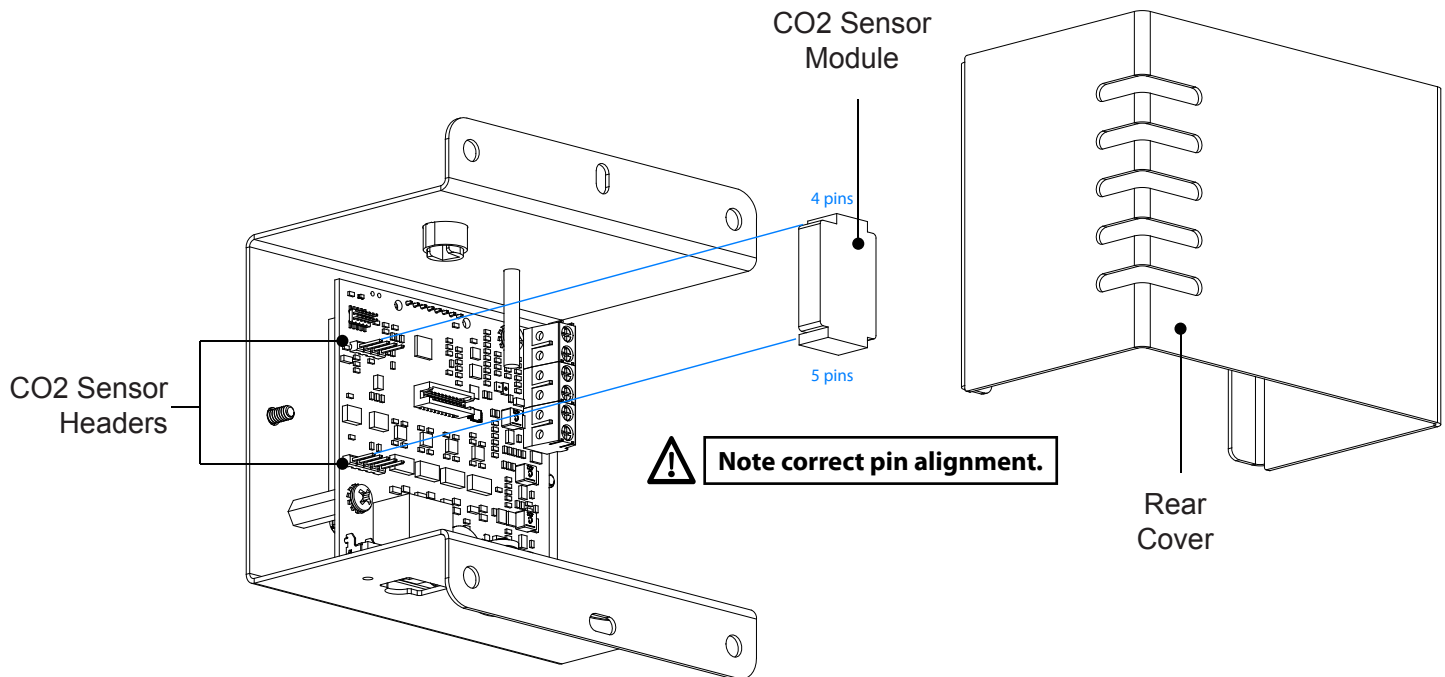
1. Disconnect power from the sensor and un-mount from the wall.
2. Remove the rear cover by removing the two screws marked (1).
3. Remove the four screws and nuts securing the fan and filter assembly to the housing.
4. Disconnect the fan wires from the terminal block and install the new fan leads to match.
5. Clean and re-install the fan filter on the outside, and the new fan on the inside of the rear cover.
6. Hand tighten the four fan screws and re-install the rear cover using the two cover screws.



CO2 Sensor Upgrade

The SXE sensor may be upgrade to sense and control CO2 ppm with a precision NDIR type CO2 sensor.

1. Disconnect power from the sensor.
2. Remove the rear cover by removing the two screws; use caution not to damage the fan wires.
3. Locate the CO2 headers.
4. Position and install the CO2 sensor module ensuring the sensor is oriented with the correct pin headers.
5. Re-install the rear cover and re-connect power. Check to ensure the CO2 reading is now working.



Technical Information

Specifications

Sensor

Power	24Vdc, ~5W
Max Cable Distance	1000ft
Aspirator	6cfm Fan with Foam Filter
Temperature Range	-20 - 60°C
Temperature Accuracy	±2°C
Humidity Range	0-100%RH (non condensing)
Humidity Accuracy	±3%
Light Irradiance Range	0 - 1000W/m2
Light Accuracy	±10%
CO2 Range	0-10,000ppm
CO2 Accuracy	±50ppm
4-20mA DAC Resolution	12 bit, 0.005mA

Relay

Input Power	110-120VAC, 15A
Max Rating	15A per receptacle & combined
Receptacle Type	NEMA 5-15
Number of Relays	4
Enclosure Knock-Outs	(2) dia. 7/8"
Enclosure Rating	IP40
Minimum Cycle Time	1 second
Interface	RS485 with MODBUS or WiFi
Relay Ratings	1,000,000 cycles
Relay Cycle Counters	Up to 4 billion cycles per relay

Storage and Disposal

Storage

Store equipment in a clean, dry environment with ambient temperature between 10-50°C.

Disposal

This industrial control equipment may contain traces of lead or other metals and environmental contaminants and must not be discarded as unsorted municipal waste, but must be collected separately for the purpose of treatment, recovery and environmentally sound disposal. Wash hands after handling internal components or PCB's.

Warranty

Agrowtek Inc. warrants that all manufactured products are, to the best of its knowledge, free of defective material and workmanship and warrants this product for 1 year from the date of purchase. This warranty is extended to the original purchaser from the date of receipt. This warranty does not cover damages from abuse, accidental breakage, or units that have been modified, altered, or installed in a manner other than that which is specified in the installation instructions. Agrowtek Inc. must be contacted prior to return shipment for a return authorization. No returns will be accepted without a return authorization. This warranty is applicable only to products that have been properly stored, installed, and maintained per the installation and operation manual and used for their intended purpose. This limited warranty does not cover products installed in or operated under unusual conditions or environments including, but not limited to, high humidity or high temperature conditions. The products which have been claimed and comply with the aforementioned restrictions shall be replaced or repaired at the sole discretion of the Agrowtek Inc. at no charge. This warranty is provided in lieu of all other warranty provisions, express or implied. It is including but not limited to any implied warranty of fitness or merchantability for a particular purpose and is limited to the Warranty Period. In no event or circumstance shall Agrowtek Inc. be liable to any third party or the claimant for damages in excess of the price paid for the product, or for any loss of use, inconvenience, commercial loss, loss of time, lost profits or savings or any other incidental, consequential or special damages arising out of the use of, or inability to use, the product. This disclaimer is made to the fullest extent allowed by law or regulation and is specifically made to specify that the liability of Agrowtek Inc. under this limited warranty, or any claimed extension thereof, shall be to replace or repair the Product or refund the price paid for the Product.