

RESPA▼ADVISOR®+ 2.0

PRESSURE + DUST + CO₂ MONITORING SYSTEM

INSTALLATION AND OPERATION MANUAL



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GETTING STARTED

THANK YOU!

Thank you for your purchase of the RESPA Advisor+ 2.0 Pressure, CO₂ and dust monitor! You have now taken the first step to establishing better visibility to operator enclosure conditions on your job site.

Before installing the monitor, we encourage you to read through the full operation manual, including mounting and wiring instructions.

Additional information and support is available online at [Sy-Klone.com/RAinfo](https://www.sy-klone.com/RAinfo) or through your authorized Sy-Klone reseller.

ABOUT RESPA ADVISOR+ 2.0

The RESPA Advisor+ 2.0 monitor provides the pressure difference between the outside, ambient pressure and the internal pressure of an enclosure, along with the CO₂ level (PPM, parts per million) and dust levels (µg/m³) within the enclosure, and real-time indication of filter usage. This document gives instructions on installing and using the RESPA Advisor+ in an enclosed cab.

ONLINE RESOURCES

Visit [Sy-Klone.com/RAinfo](https://www.sy-klone.com/RAinfo) to access:

- Digital version of RESPA Advisor+ 2.0 Operator Manual.
- Digital version of RESPA Advisor+ 2.0 Quick-Start Guide (package insert)
- Frequently Asked Questions
- Firmware updates

INFORMATION SCREEN

During setup or once the system has been installed, accessing support is only a click away. Scan the QR code on the information screen to visit [Sy-Klone.com/RAinfo](https://www.sy-klone.com/RAinfo) directly.



TOUCHSCREEN TIP

If you have difficulty using the touchscreen with your fingertips, try using a stylus (not included). A ballpoint pen with the tip retracted works well, just be sure not to write on the screen with ink. Do not use anything sharp that can scratch the screen.

SECTION 1: TECHNICAL SPECIFICATIONS

Voltage: 12-24 VDC (Undervoltage protection @ 10 VDC; Overvoltage protection @ 36 VDC)

Current Consumption: Less than 0.1A

Operating Temperature Rating: -10°C to 60°C (14°F to 140°F)

Storage Temperature Rating: -55°C to 125°C (-67°F to 257°F)

Operating Pressure Range: 0 to 500 Pascal (Pa) (0 to 2.00 Inches-H₂O)

Operating CO₂ Range: 0 to 5000 ppm

Operating Particulate Concentration Range: 0-1000µg/m³

Display Resolution: 1 Pa (0.01 Inches-H₂O)

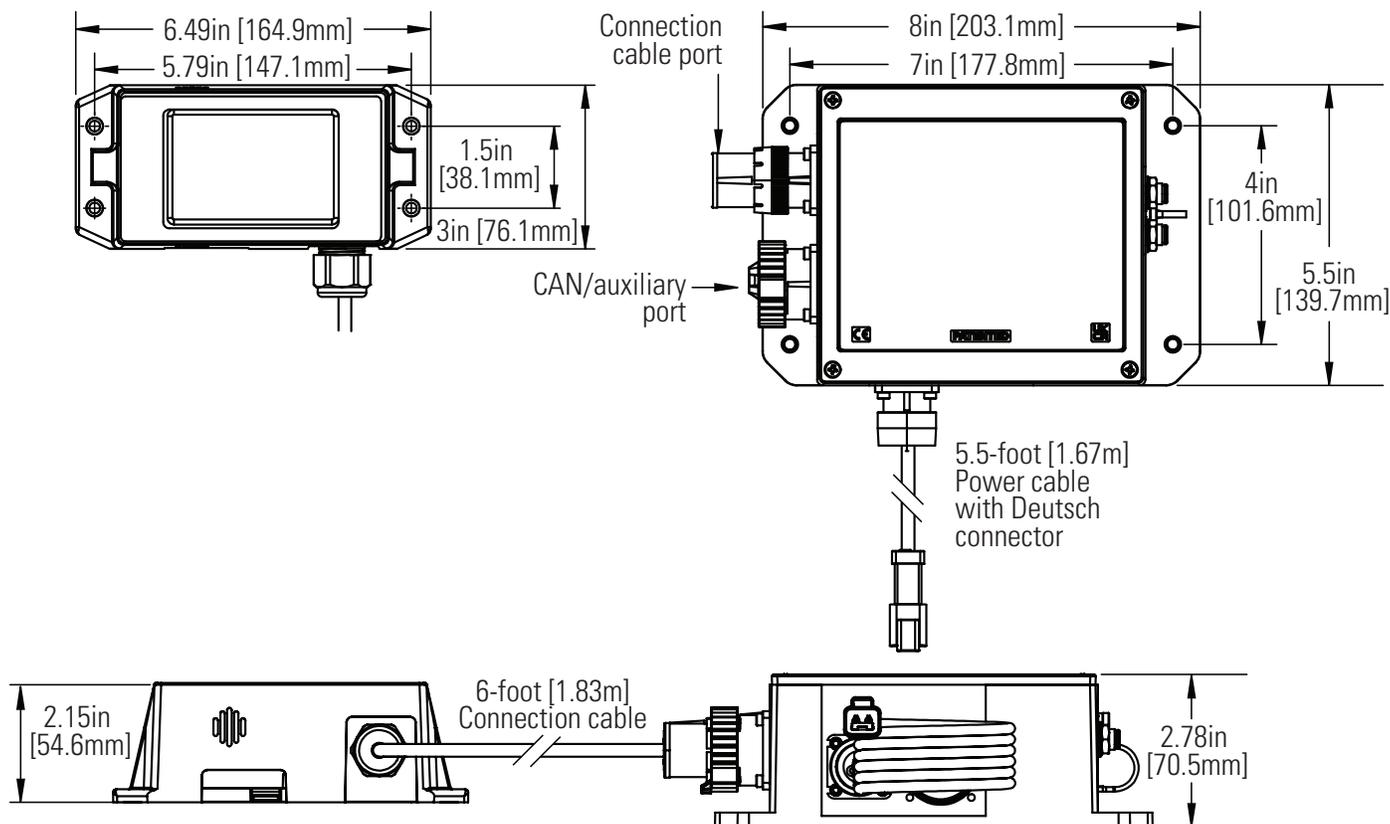
Weight:

- Monitor: 238g (8.4oz)
- Control Module: 674g (23.8oz)

Connector: Deutsch part number DT04-2P-E005, qty 1; W2P secondary lock, qty 1; 0460-202-16141 contact pins, qty 2

Dimensions:

- Monitor: 164.8 x 75.3 x 54.6 mm (6.49 x 2.96 x 2.15 inches)
- Control Module: 203.2 x 139.7 x 70.5 mm (8 x 5.5 x 2.78 inches)



SECTION 2: INTRODUCTION

GENERAL INFORMATION

- The monitor should be installed within the operator's reach and line of sight.
- The cab must be sealed and able to maintain pressure; check that all seals and gaskets are intact and add extra sealant where necessary.
- This unit works with 12/24 VDC systems. The system should be connected so it is powered when the key is turned on.
- The system utilizes a pressure-sensitive LCD touch screen. Do not use anything sharp on the touch screen, as it may cause screen damage.

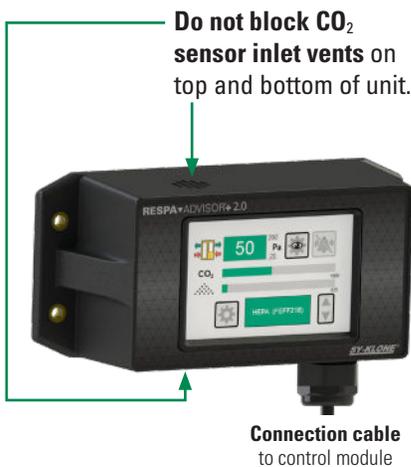
MONITOR SETTINGS

The system will be set to default values for pressure, CO₂, and dust alarm thresholds and can be used with no further configuration, but in order to take advantage of filter life tracking, you will need to go through the Settings menu to select and assign the RESPA filter(s) you are using. You may also adjust settings to synchronize filter life with your preventative maintenance cycles or debris conditions.

IDENTIFICATION AND FUNCTION OF PARTS

The cab alarm sounds when cab pressure drops below the low-pressure threshold, increases above the high-pressure threshold, or when CO₂ or dust levels exceed thresholds (thresholds and alarm delays are user-adjustable). Alarm state resets when the cab conditions return to the acceptable range or when the power is cycled off/on.

MONITOR



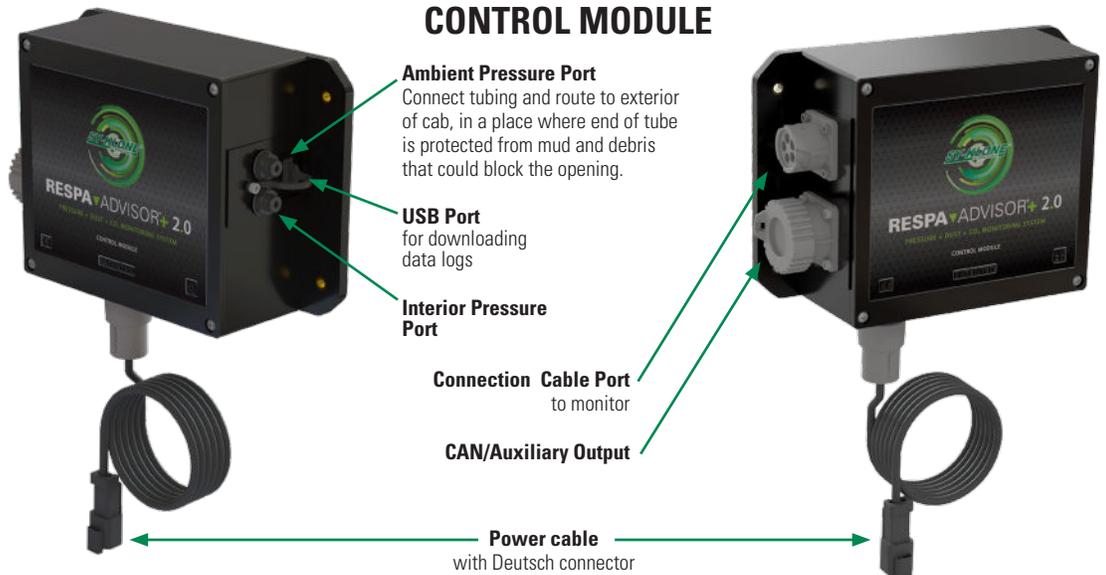
CUSTOMIZABLE SETTINGS

- Alarms have adjustable time intervals before sounding.
- Display pressure readings in Pascals or Inches of H₂O
- Low-pressure alarm threshold
- High-pressure alarm threshold
- Primary CO₂ alarm threshold
- Secondary CO₂ alarm delay
- Dust level alarm threshold
- Alarm volume

DEFAULT SETTINGS

- **Sound:** On
- **Volume:** 75% of maximum
- **Pressure Units:** Pascals
- **Low Pressure Alarm Threshold:** 20 Pascals at 3 seconds
- **High Pressure Alarm Threshold:** 200 Pascals at 6 seconds
- **CO₂ Alarm Thresholds:**
 - Primary 1000 PPM
 - Secondary 2500 PPM (fixed)
- **Secondary CO₂ Alarm Mute:** 5 minutes
- **Dust Alarm Threshold:** 50 µg/m³

CONTROL MODULE



SECTION 3: INSTALLATION

If the system installation is correct, the RESPA Advisor+ 2.0 system will start when the key is turned on. If it does not, check wiring. A startup screen with the RESPA Advisor+ 2.0 logo will appear and fade to the Main Display screen.

MOUNTING CONSIDERATIONS

Review “General Information” on page 6 before starting installation.

When deciding on the location, take into consideration:

- The monitor can be mounted at any location inside the operator cab that is visible to the operator and within the operator’s reach.
 - It is necessary to see and touch the monitor screen to make changes.
- The monitor distance from the control module must not exceed the length of the connection cable.
- The power wire must be routed to the control module.
- The control module should be mounted inside the cab, in a place accessible for maintenance purposes.

The monitor is designed with mounting tabs. Use the mounting tabs to secure the unit with installer-provided hardware.

NOTES:

- Use of lock washers is suggested. Additionally, double-sided tape can be used for monitor installation.
- If needed, Sy-Klone offers a wiring harness kit (RCF2915) including zip ties to secure cable.

CO₂ SETUP

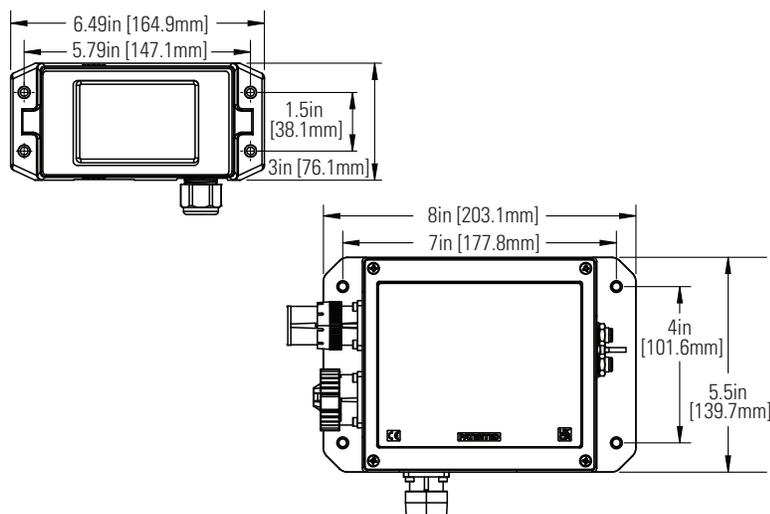
All settings have default values, but the ambient CO₂ value can vary greatly from place to place. To make sure the CO₂ primary alarm is set up properly, allow the system to run unoccupied for about 5 minutes with the cab door or a window open, then see what the ambient level is. Then, in Settings, go to the CO₂ menu and set the primary alarm at a level of ambient + 400 PPM. The default setting is 1000 PPM. (See “CO₂ Level warning and alarm” on page 15)

WIRING THE CONTROL MODULE

The power leads can be connected to any convenient DC voltage connection point meeting these criteria:

- The supply voltage must be between 12 VDC and 24 VDC.**
- The voltage source is to be switched on/off with the vehicle power. If the vehicle has a key, make sure the connection point is “ON” with the key turned to the “on” position and “OFF” with the key in the “off” position.
- The power lead is to be fused appropriately. A 5A max fuse is recommended. If an appropriate fused connection point is not available, an inline fuse can be purchased.**
 - NOTE: If installing RESPA Pure or PFX, See “Power to Recirculation Filtration” on page 17 as fusing will change.
- The power terminal is a Deutsch 2-pin connector.
 - The RED lead (+, pin 1) is to be connected to positive battery voltage and the BLACK lead (-, pin 2) is to be connected to negative battery or vehicle ground.**
- The electrical cable can be cut and shortened if desired.
- Secure the wire to the cab in a manner so as to protect the wire.
- The wire can be routed behind the cab panels as desired.

**Deviating from these instructions can result in non-function or permanent damage to the system.



SECTION 4: SETTINGS/OPTIONS

ENTER SETTINGS SCREEN

To adjust settings, starting from the **Home screen**, select the **Settings icon**.

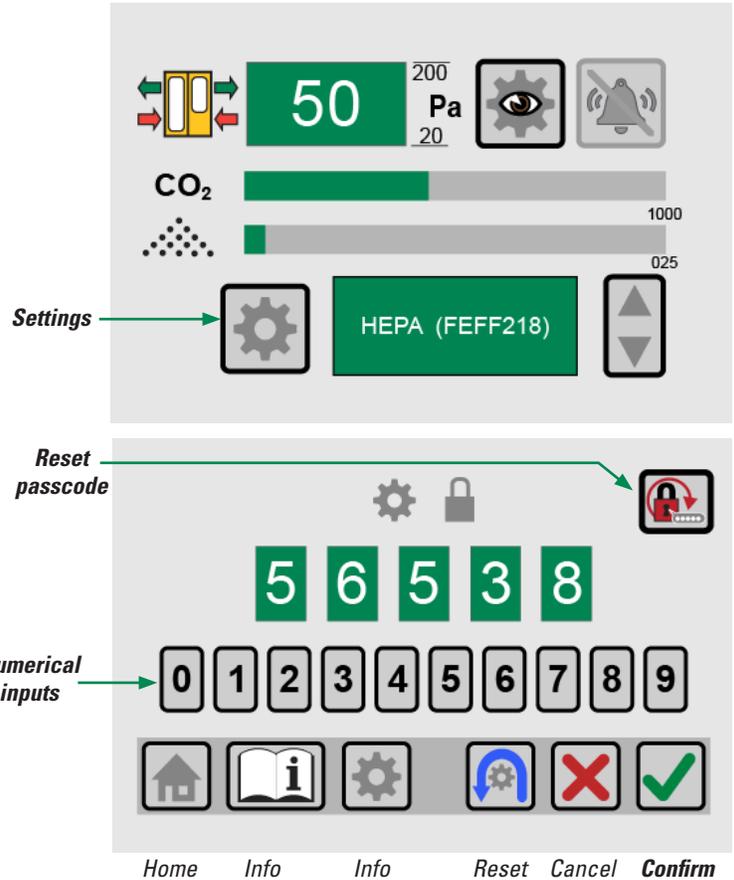
The **Enter Passcode** screen will appear.

Enter the passcode using the numerical inputs. The default passcode is **56538**. Press the green checkmark **Confirm button** to enter the **Settings screen**.

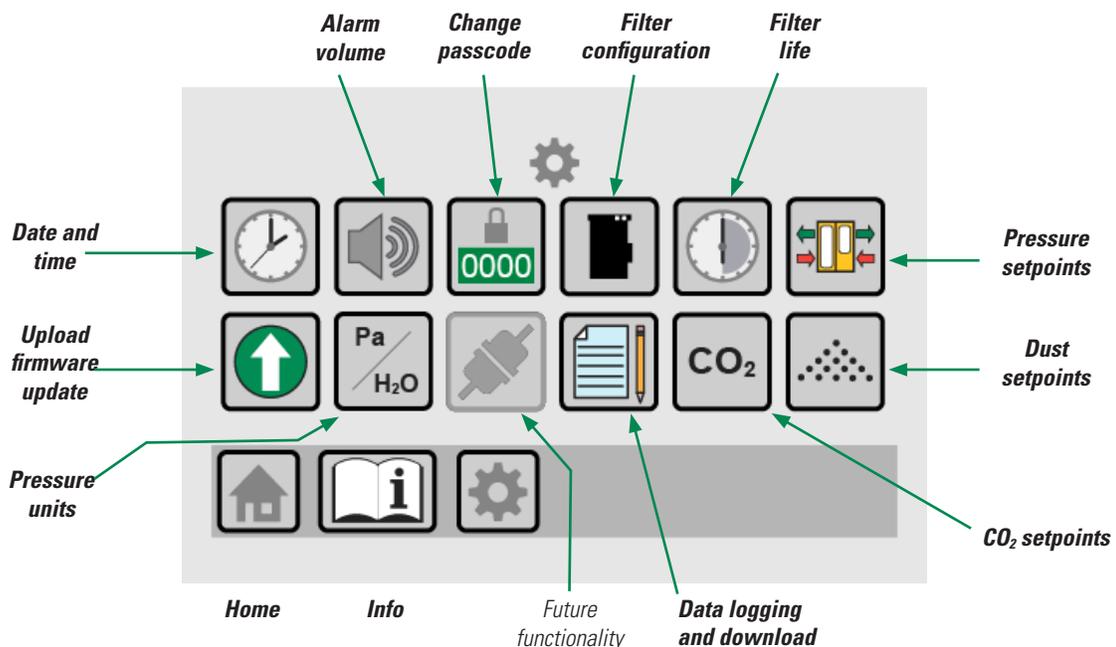
You can change the passcode from the **Settings screen**.

If you have lost the passcode, you can reset it to the default passcode using the **Reset Passcode button** in the upper-right corner, which will reset passcode to **56538** and return you to the **Home screen**.

The **Settings Menu** screen will appear.



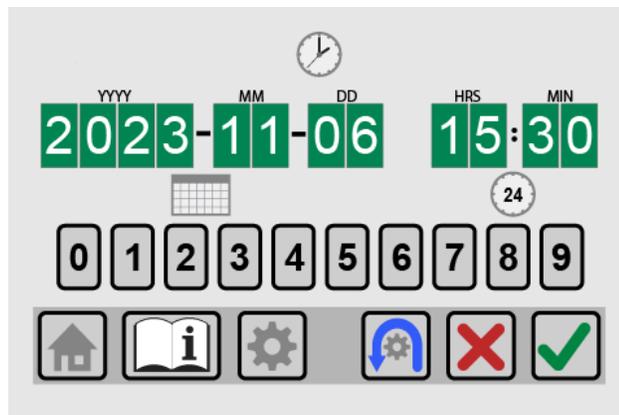
SETTINGS MENU



SETTINGS: DATE AND TIME

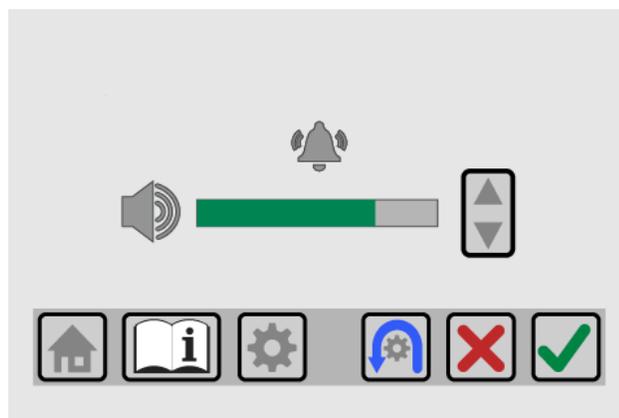
To change the date and time, start by hitting the **Reset button**. You must change all fields at once, there's no way to change only part of the fields (ie: there's no way to just change the hours, or just the minutes, and keep the date).

- Use the numbers to fill in the date using **YYYY-MM-DD** format.
- Use the numbers to fill in the time using **HH:MM** format, using 24-hour time (ex: 2:45 PM on February 7th, 2024 would read 2024-02-07 14:45).
- When you're finished adjusting, select **Confirm** to accept the changes. If you decide that you don't wish to change the date, simply select the **Cancel** or **Settings** button, and you'll be returned to the Settings menu.



SETTINGS: VOLUME

- To adjust the volume, scroll up or down using the **arrow buttons** on the right. The unit should tone to give you a preview of the volume, unless the unit is alarming or muted. The minimum volume setting is silenced.
- Once you find the volume you like, press the **Confirm button** to apply the change.
- If you change your mind and don't want to adjust the volume, press either the **Cancel** or **Settings button**.
- If you want to reset the volume to the default (75% of maximum), press the **Reset button**, then **Confirm**.

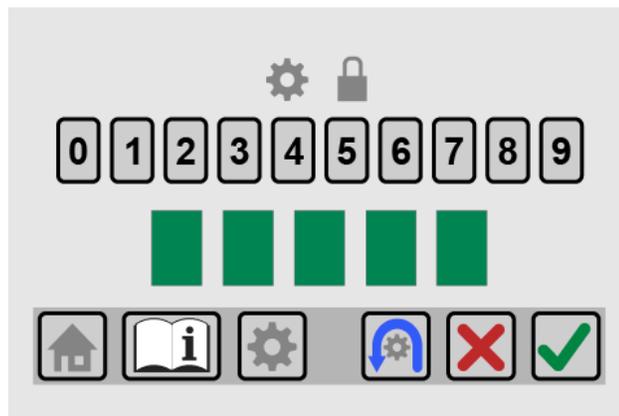


SETTINGS: CHANGE PASSCODE

To reset the passcode, just type in any 5-digit passcode you'd like to use, then select **Confirm**. You should be automatically returned to the main **Settings menu**. If you don't actually want to change your passcode, select either the **Cancel** or **Settings buttons**.

Note: you can't use code **77779**, as that is already allocated for recalibrating the pressure level as ambient.

You can track your passcode changes here:



Date	Passcode	Date	Passcode
Default passcode	56538		
Recalibration passcode	77779		

SETTINGS: FILTER IDENTIFICATION

There are four assignable filter locations (left 1-4) that can house any of the listed Sy-Klone filters. (See “Filter identification specifications” on page 10) Either fresh or recirculation filters can be installed into these locations. Tracking the life of each filter can be done through the **Filter Life screen** (See “Filter Life” on page 9).

To manually input filters for tracking:

1. Use the **Up/Down Filter Selection button** to select the filter to be installed.
2. Tap the **Filter Location** (left 1-4) to manually assign the selected filter to that location.
3. The installed filter will then populate into the **Assigned Filter** display, REMOVED will display in the selected filter box, and the chosen filter location will turn black to indicate that a filter has been assigned.
4. Press the **Confirm button** when all selections are correct and return to the Settings menu.
To exit without saving changes, press the **Settings** or **Cancel buttons** to return to the **Settings screen**, or press the **Home button** to return to the main display.

FILTER LIFE

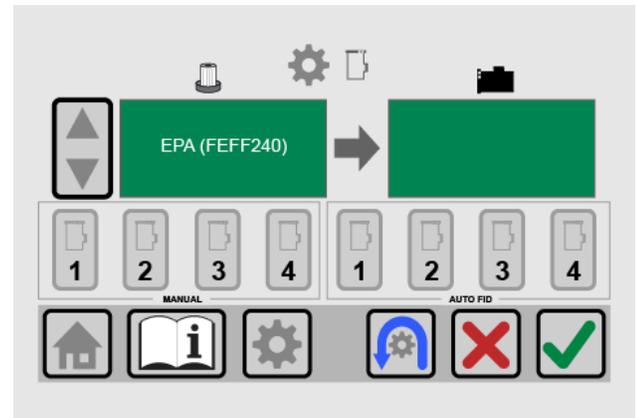
On the **Home screen**, the Filter Identification display will show the filter information for the filter installed. Use the **Up/Down Filter Selection buttons** to view the filter information for any other filters installed.

Press the **Filter Identification display** on the **Home screen** to enter **Filter Life screen**. The maximum filter life hours are determined by the filter type. See “Filter identification specifications” on page 10.

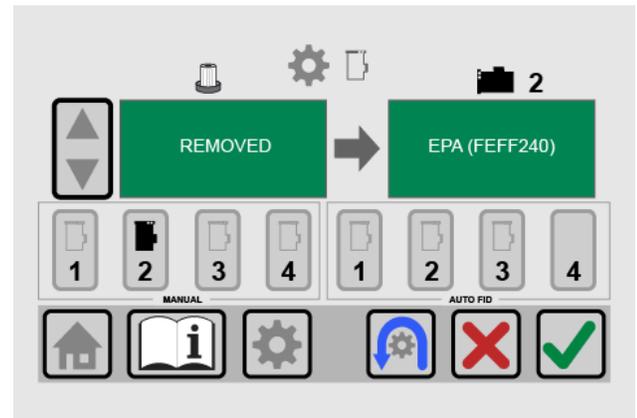
The filter life bar will diminish from right to left.

All installed filters can be viewed by using the **Up/Down Filter Selection buttons**.

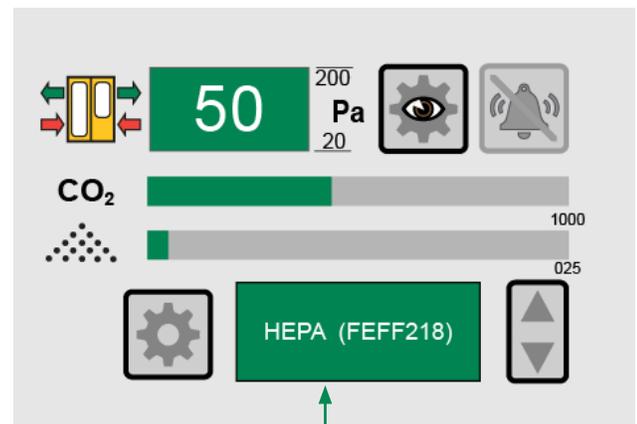
Press the **Home button** to return to the **Home screen**.



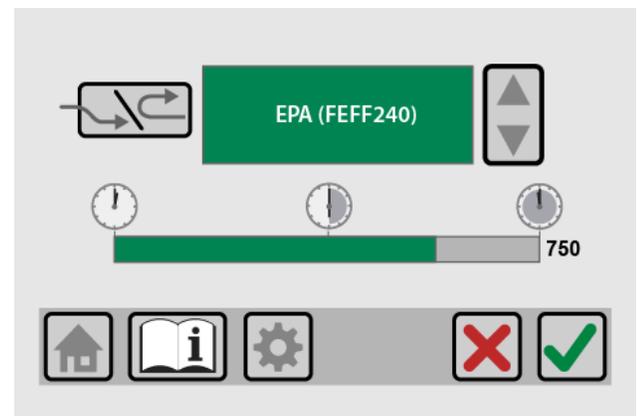
Filter Selected



Filter Assigned to location 2



Home screen Filter Identification display



FILTER IDENTIFICATION SPECIFICATIONS

RESPA Advisor+ 2.0 includes manual filter tracking for better insight on when to change your fresh/recirculated air filter. Below are default settings for Sy-Klone RadialSHIELD[®] filters. To accommodate future filter releases, a CUSTOM filter option is included. For additional information on modifying default hours or setting a filter life for the CUSTOM filter selection. See “Settings: Filter Life hours” on page 11.

Part Number	Rating	System Type	Filter Cap Type	Filter Type*	Length	Maximum Filter Life Setting (Hours)
FEFF210	HEPA	Recirculation	Closed	PF	Standard	500
FEFF213	HEPA	Recirculation	Closed	PF	Extended	750
FEFF218	HEPA	Fresh Air	Ejective	PF	Standard	500
FEFF219	HEPA	Fresh Air	Ejective	PF	Extended	750
FEFF222	HEPA	Recirculation	Louvered	PF	Standard	500
FEFF240	EPA	Fresh Air	Ejective	PF	Standard	500
FEFF241	EPA	Fresh Air	Ejective	PF	Extended	750
FEFF242	EPA	Recirculation	Louvered	PF	Standard	500
FEFF243	EPA	Recirculation	Closed	PF	Standard	500
FEFF244	EPA	Recirculation	Closed	PF	Extended	750
FEFF208	MERV 16/F9	Fresh Air	Ejective	PF	Standard	750
FEFF209	MERV 16/F9	Fresh Air	Ejective	PF	Extended	1000
FEFF211	MERV 16/F9	Recirculation	Closed	PF	Standard	750
FEFF212	MERV 16/F9	Recirculation	Closed	PF	Extended	1000
FEFF220	MERV 16/F9	Recirculation	Louvered	PF	Standard	750
GF130	HEPA / ABEK1 P3	Fresh Air	Ejective	GF	Extended	250
GF132	HEPA / K2 P3	Fresh Air	Ejective	GF	Extended	250
OF131	HEPA / Odor	Fresh Air	Ejective	OF	Standard	500
Custom	Custom	Custom	Custom	Custom	Custom	1000

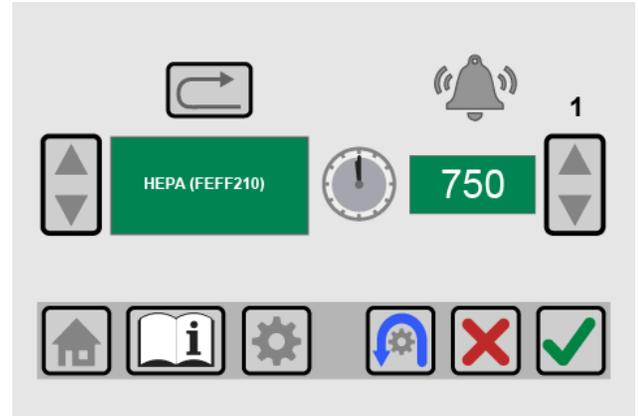
* PF = Particulate Filter, GF = Gas+Particulate Filter, OF = Odor+Particulate Filter

SETTINGS: FILTER LIFE HOURS

You can adjust the number of hours that the installed filter is allowed to run before needing to be replaced, for instance to sync with PM cycles. Installed filters will initialize at their maximum value, which varies by filter (see Filter Identification Specs table on the previous page). You can adjust the number of hours down, but once they are confirmed at a lower setting, whether that's set by you or by the filter having been used and the hours counted down, they cannot be set higher. Press the **Confirm button** when changes are complete.

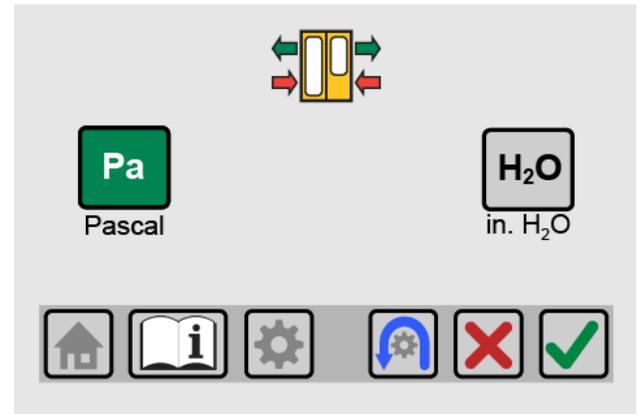
After Filter Changes:

To reset the filter hours to a higher level after having changed out the filter, you have to go to the Filter Identification menu and “uninstall” the filter, confirm, re-enter the Filter Identification menu, and “re-install” the filter. After that, you can adjust the hours back to whatever level you would like it set to, within the filter’s default maximum life. (See “Settings: Filter Identification” on page 9.)



SETTINGS: PRESSURE UNITS

The RA+2.0 system allows you to choose whether you want the pressure to be indicated in Pascals or inches of water (inH₂O). To switch between the two, simply press the corresponding icon on the unit you wish to use, then select Confirm. The currently selected unit will highlight in green. **NOTE:** This will not convert the pressure setpoints if you have adjusted those, it will instead return to the default setting for the new pressure unit.

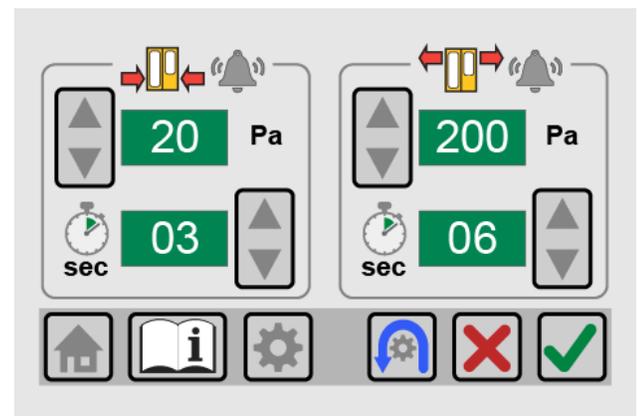


SETTINGS: PRESSURE SETPOINTS

On the left side of the screen, you can use the **Up/Down Scroll buttons** to set the pressure value for the minimum “allowable” pressure in the enclosure, and the delay for how long the pressure must be below that level before the alarm sounds.

On the right side of the screen, you can use the **Up/Down Scroll buttons** to set the pressure value for the maximum “allowable” pressure in the enclosure, and the delay for how long the pressure must be above that level before the alarm sounds.

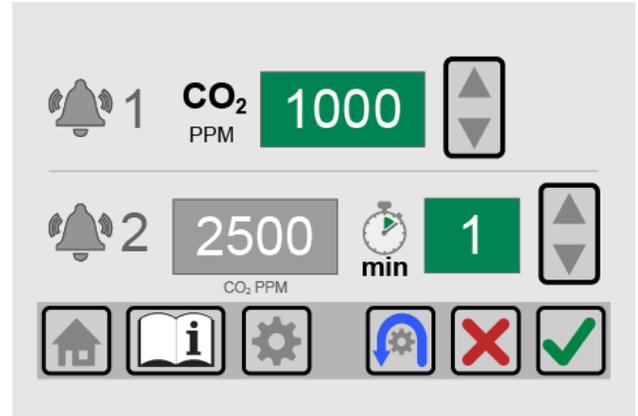
Press the **Confirm button** when changes are complete.



SETTINGS: CO₂ SETPOINTS

- **Primary Alarm:** Use the **Up/Down** Primary Alarm Threshold buttons to adjust the CO₂ PPM alarm level for the primary alarm
 - Sy-Klone recommends setting the primary CO₂ alarm at the ambient CO₂ level + 400 PPM. This alarm sounds immediately when conditions exceed the threshold, the alarm sounding delay is not adjustable.
- **Secondary Alarm:** The secondary CO₂ alarm is not adjustable (Occupational Exposure Limit has been determined to be 2500 PPM).
 - The interval at which the secondary CO₂ alarm can be silenced can be adjusted between 0 - 10 minutes using the **Up/Down** Secondary Alarm Interval buttons.
- Press the **Reset button** to reset the primary PPM alarm level to 1000 PPM and secondary alarm interval to 5 minutes.
- Press the **Confirm button** to confirm any changes and return to the **Settings Menu** screen.

To exit without saving changes, press the **Settings button** or **Cancel button** to return to the Settings screen, or press the **Home button** to return to the main display.

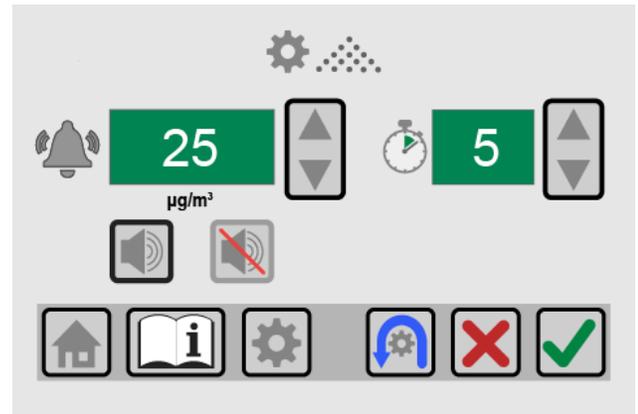


SETTINGS: DUST INDICATOR SETPOINT

Use the **Up/Down** Alarm Threshold buttons to adjust the dust µg/m³ alarm level.

- The interval at which the Dust alarm can be silenced can be adjusted between 0 - 10 minutes using the Up/Down Alarm Interval buttons. This impacts both how long the dust level must remain above the threshold before alarming, and how long the alarm can be silenced for.
- Press the **Reset button** to reset the µg/m³ alarm level to 50 µg/m³ and alarm interval to 5 minutes.
- Use the Audible Alert selection options underneath the alarm threshold to select whether you want the unit to audibly alert you when the dust level exceeds the threshold. The icon with the black border is the currently selected setting.

Press the **Confirm button** to confirm any changes and return to the Settings screen. Or, to exit without saving changes, press the **Settings** or **Cancel buttons** to return to the Settings screen, or press the **Home button** to return to the main display.



SETTINGS: DATA LOGGING INTERVAL

Use the Up/Down Data Sampling Interval buttons to adjust the interval at which samples are logged. NOTE: Selecting one second intervals will give you a log of approximately one hour, ten second intervals will give you a log of approximately 10 hours, etc.

Logging interval	Approximate operating time covered in logs
1 sec	1 hour
10 sec	10 hours
30 sec	30 hours
1 min	60 hours
5 min	300 hours
10 min	600 hours

Press the **Reset button** to clear the data from the current log.

Press the **Confirm button** to confirm any changes and return to the Main Menu screen.

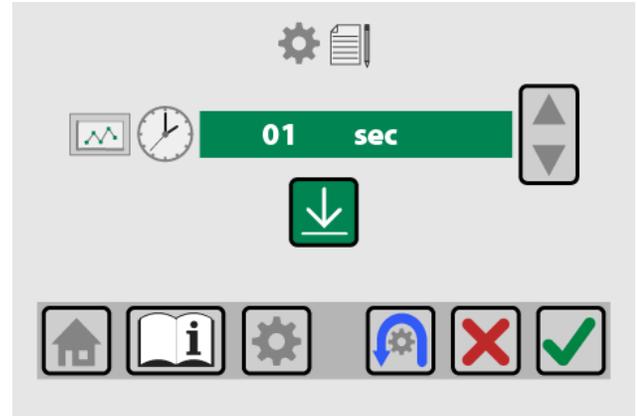
To exit and return to the Settings screen without saving any changes, press either the **Cancel** or **Settings buttons**.

DOWNLOAD DATA LOGS

To download the data logs

1. Navigate to the Data Log menu
2. Insert your USB
3. Press the **Download button**, and you'll see a loading bar come up
 - NOTE: If the USB drive is not inserted all the way, the loading bar will turn red. To resolve this, hit the **Cancel button**, eject the USB drive, re-insert all the way, and try again.
4. Once the loading bar finishes and disappears, then you can eject your USB

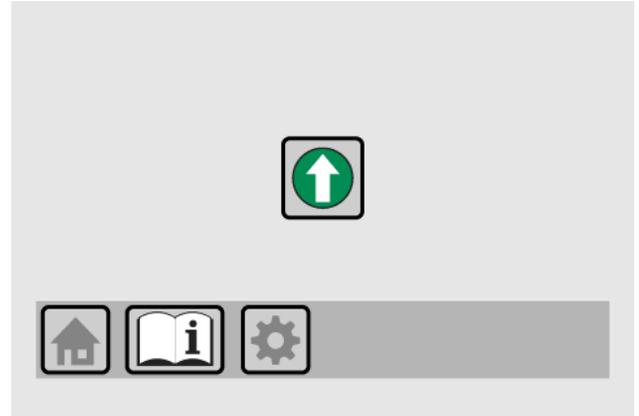
NOTE: if you already had data from a RA+2.0 unit on the USB, that data will be overwritten with the new file unless you had renamed it. It will not affect any other files on your USB if there are any.



SETTINGS: UPLOAD SYSTEM UPDATE

If Sy-Klone distributes an update to the system, retrieve the update files from the RESPA Advisor+ Support page (Sy-Klone.com/RAinfo) and put those on an **empty** type-A USB. Compare the size of the file on the website and USB to make sure it has copied completely.

On your RA+2.0, navigate to the **Update screen** in Settings and insert the USB with the update files. After inserting the USB, hit the **Update button** in the center of the screen. A loading bar should appear. Once the loading bar finishes and disappears, the update is complete, and you can eject the USB.



The process may take several minutes depending on the size of the update.

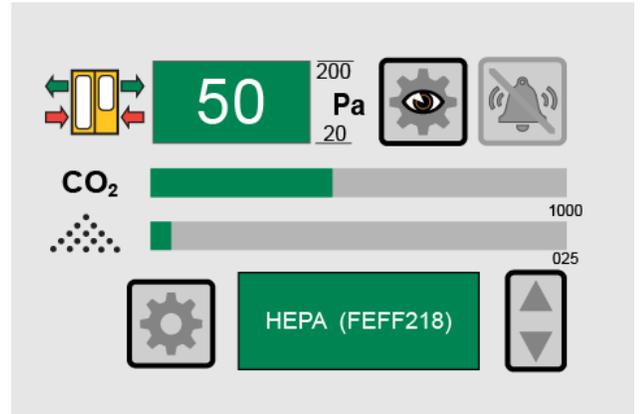
SECTION 5: OPERATION

PRESSURE WARNING AND ALARM

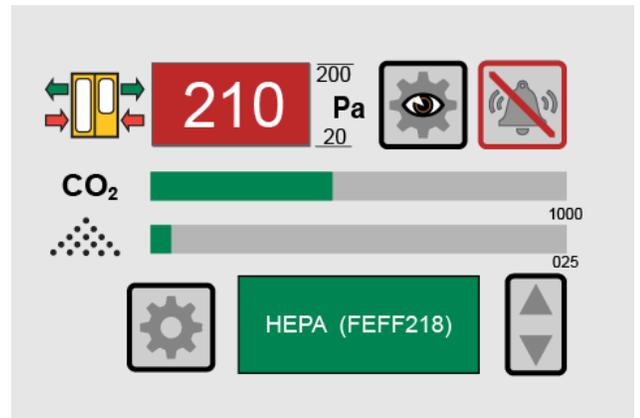
The RESPA Advisor+ 2.0 System will change display colors to visually alert the user for warnings as well as alarm situations. The audible alarm will sound under alarm conditions if active.

Color	Alarm Color Code
Good	
Warning	Green: Inside set permissible limits Amber: 10% above set low-pressure threshold or 10% below set high-pressure threshold
Alarm	Red: At or outside of the set low or high threshold

- When the pressure reduces to 10% (of the range) above the set low-pressure alarm threshold, the cab pressure level display color will change to amber.
- When the pressure level reaches the set low-pressure alarm threshold, the cab pressure level display will change color to red and the alarm will sound.
- If the pressure increases to 10% (of the range) below the set high-pressure alarm threshold, the cab pressure level display color will change to amber.
- If the pressure level reaches the set high-pressure alarm threshold, the cab pressure level display will change color to red and the alarm will sound.
- The alarm condition will remain until the pressure returns to within the alarm thresholds or power to the monitor is interrupted (cycled off/on).
- If pressure is reading something other than 0 when the environment is open to the atmosphere, recalibrate it by navigating to the login screen and typing the code 77779.



Home screen appearance under normal operating conditions, with all variables within parameters.



Pressure above defined maximum limit.

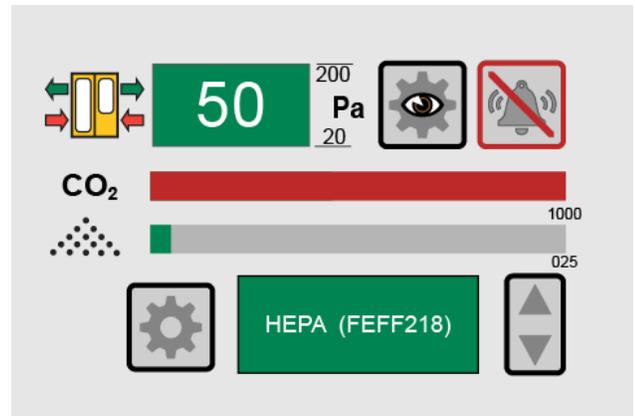


Silence Alarm button



CO₂ LEVEL WARNING AND ALARM

- When the CO₂ level increases to 90% of the primary, user-set CO₂ threshold, the CO₂ PPM level display color will change to amber.
- If the CO₂ PPM level reaches the primary CO₂ PPM alarm threshold, the CO₂ PPM level display will change color to red and the alarm will sound.
- The alarm condition will remain until the CO₂ PPM level returns to within the primary alarm threshold or the monitor is reset (cycled off/on).
- If the CO₂ PPM level reaches 2500 PPM, the secondary, non-adjustable CO₂ PPM alarm will sound, and it is only able to be muted for a set interval between 0-10 minutes until cab conditions return to within thresholds.



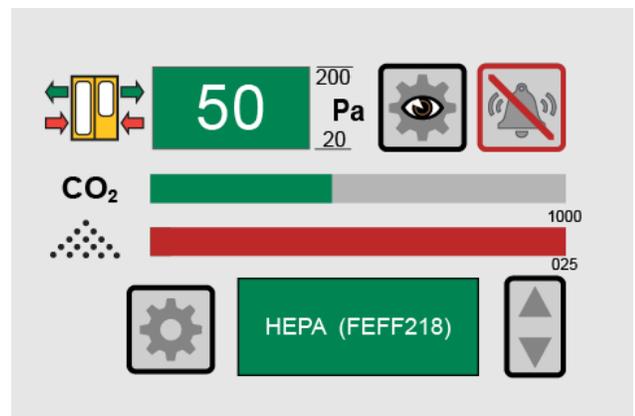
CO₂ Alarm Color Code

- Green:** Inside set permissible limit
- Amber:** >90% of set threshold
- Red:** >100% of set threshold

DUST INDICATOR WARNING AND ALARM

- When the dust level increases to the set limit, and continues to be at that level or higher, after the set time interval passes, the dust level indication bar will turn red and the audible alarm will sound.
- If you do not wish to be audibly alerted to the dust level, but still wish to receive audible alerts for the pressure and CO₂ levels, you can permanently mute this alarm. See “Settings: Dust Indicator Setpoint” on page 12.

NOTE: Dust Indicator shows relative levels of dust in the cab and is in no way a testing device

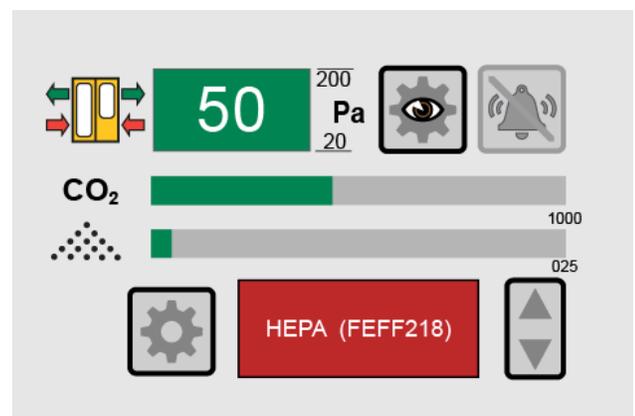


Dust Indicator Alarm Color Code

- Green:** Inside set permissible limit
- Red:** Above set threshold

FILTER LIFE WARNING AND ALARM

- When the filter life hours decrease to 20% of the maximum filter life hours remaining, the filter identification display will change color to amber.
- If the filter life hours reach the maximum filter life hours, the filter identification display will change color to red.
- The alarm condition will remain until the expired filter(s) is replaced. (See “Replacing the filter” on page 16.)

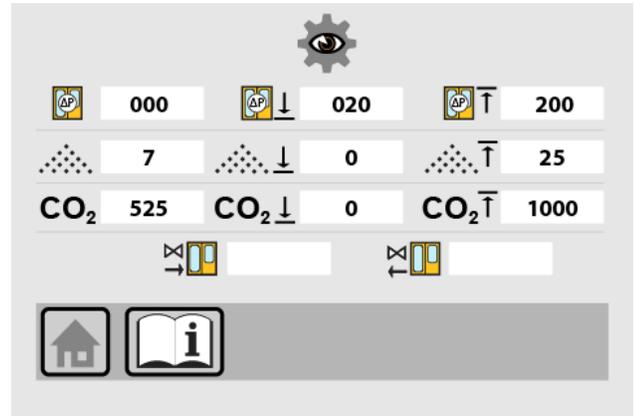


AT-A-GLANCE DASHBOARD SCREEN

To view the dashboard, click the icon on the home screen.



The dashboard screen shows numeric values for current pressure, dust, and CO₂ levels, along with the low and high threshold settings for each.



Current pressure level	Pressure: low threshold setting	Pressure: high threshold setting
Current dust level	Dust: low threshold setting	Dust: high threshold setting
Current CO ₂ level	CO ₂ level: low threshold setting	CO ₂ level: high threshold setting

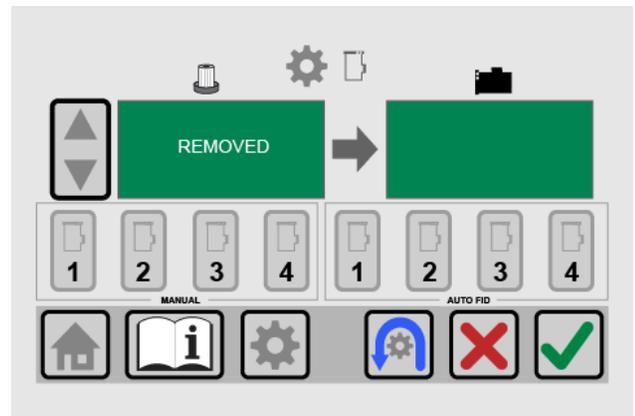
REPLACING THE FILTER

Replace filter(s) per standard operating procedure.

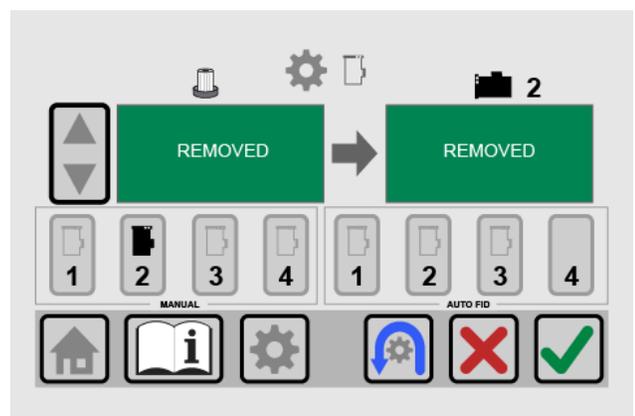
Go to **Filter Identification Screen**, then remove and reassign the filter. This will restore filter life to 100% and set filter-life hours to default maximum value.

1. Using **up/down arrows**, set left Selected Filter Display to **REMOVED**
2. Press filter housing number of filter that was replaced so that **REMOVED** and filter housing number show on the Installed Filter Display.
3. Press **Confirm**. Filter housing is now available to reassign filter type. To reassign, re-enter the Filter Identification menu to reassign new filter.

If you wish to reset the filter-life hours after reassigning the filter. See "Settings: Filter Life hours" on page 11.



Step 1



Step 2

ADDITIONAL CAPABILITIES

CAN OUTPUT FOR TELEMETRY SYSTEMS

The RESPA Advisor+ 2.0 can output data using the SAE J1939-22 CAN data schema. Contact Sy-Klone for details.

POWER TO RECIRCULATION FILTRATION

If you have a Sy-Klone standalone recirculation system, such as the RESPA Pure or PFX, it can be powered by the control module via the CAN/Auxiliary port with a wiring harness (RASK6904, available separately; contact Sy-Klone for details.)

NOTE: The RESPA Advisor+ 2.0 input power fusing must be appropriate for the recirculation system being powered. See the recirculation system’s instructions for fusing details.



ROUTINE MAINTENANCE

If you have to change out one of the modules of the system, please ensure that the “new” part comes from the same lot number.

DATE AND TIME

Reset the date and time every few months, or more frequently for more accurate timekeeping in data logs.(See “Settings: Date and time” on page 8)

PRESSURE RECALIBRATION

If pressure is reading something other than zero when the enclosure is open to the atmosphere, recalibrate it by navigating to the login screen and using the passcode 77779.

1. Open cab door and let pressure equalize.
2. From the Home screen, tap the **Settings button**.
3. On the passcode screen, enter 77779 and tap **Confirm button**.
4. The unit will recalibrate the pressure.

