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General / Product-Related Questions & Answers

Q: What are the main differences between the RESPA Advisor+ and RESPA Advisor?

A: The RESPA Advisor+ is a CO₂ and pressure monitor, featuring a highly-accurate ISO 23875-compliant CO₂ sensor, an interactive touch screen, filter life tracking, audible and visual alerts, and other enhanced features. The RESPA Advisor+ monitors and displays differential pressure through a Bluetooth connection to an externally-mounted Ambient Pressure Sensor (APS).

The RESPA Advisor is an in-cab pressure monitor that includes audible and visual alerts for pressure, and a visual alert when it's time to change the filter. The RESPA Advisor measures pressure using a tube that runs from the monitor to the exterior of the cab.

Q: How is the pressure differential calculated?

A: The APS measures ambient pressure outside the cab. The monitor measures pressure inside the cab and the pressure differential is determined by an algorithm.

Q: The RESPA Advisor+ includes an NDIR CO₂ sensor. What makes it different than other CO₂ sensors?

A: A Non-Dispersive Infrared (NDIR) CO₂ sensor is required by ISO 23875 and is considered the most accurate CO₂ sensor technology available.

Q: Where can I find the manual and other information for the RESPA Advisor+?

A: The comprehensive operation manual can be viewed / downloaded online by following this link: <https://bit.ly/3z8BNwP>. Additional information is available at Sy-Klone.com/RAinfo.

Q: What are the warranty details and how do I submit a warranty claim?

A: The RESPA Advisor+ comes with Sy-Klone's standard product warranty for electronic devices. Follow this link for more details: <https://bit.ly/3gfE3uM>

Installation Questions & Answers

Q: Where do you recommend mounting the RESPA Advisor+ monitor?

A: Sy-Klone recommends the monitor be installed within the operator's line of sight and reach, as to conveniently interact with the touch screen. The monitor should be a minimum of 12 inches (30.48 cm) from the operator's face, allowing the monitor to be away from the operator's direct breathing pattern (so that CO₂ is representative of the overall cab environment). Additionally, Sy-Klone recommends the monitor be mounted outside of the direct airflow from the air vents.

Q: Is it ok to mount the RESPA Advisor+ monitor on glass?

A: Yes, this is a common mounting location, as long as it is within any safety guidelines on the job site. Use double-sided adhesive or foam tape to install the monitor on glass.

Q: Where do you recommend mounting the Ambient Pressure Sensor (APS)?

A: The APS must be mounted on the cab's exterior. Sy-Klone recommends it be mounted vertically, with the wire-side down, in a non-pressurized, protected area, such as the exterior rear wall of the cab, where it will not be impacted by dirt or exposed to wind, rain, excessive moisture, or direct airflow during machine operation. Additionally, Sy-Klone recommends a maximum distance of 15 feet (4.57 m) between the APS and monitor.

Q: I already have a RESPA® CF2 installed on the outside of the cab. How can I simplify the mounting and wiring for the Ambient Pressure Sensor (APS)?

A: Sy-Klone offers an APS mounting kit (Part # RASK5901) that attaches to the RESPA CF2 mount. This kit also includes a wiring harness which allows the RESPA CF2 and RESPA Advisor+ to be powered using the same fused connection.

Q: Why is the power cable so large?

A: The power cable includes multiple wires and is heavily shielded to prevent electromagnetic interference (EMI) that could cause the RESPA Advisor+, or other electronics on the machine, to operate incorrectly.

Q: How long is the power cable and how can it be lengthened?

A: The power cable is 6 feet (1.83 m). It can be lengthened another 10-15 feet (3.05-4.57 m), as needed, with a RCF2915 wiring kit. We recommend a maximum distance of 15 feet (4.57 m) between the APS and monitor.

Operations and General Use Questions & Answers

Q: After installing the RESPA Advisor+, I'm receiving erratic CO₂ readings. Why are the readings like this?

A: The CO₂ sensor has a built-in calibration process that takes up to 24 hours to initially adjust to its new environment. After 24 hours of run time, the readings should stabilize.

Q: When going up or down hills or changing elevation, the pressure alarm is activating. What is causing this?

A: The pressure sensors must recalibrate to account for elevation change (elevation affects ambient pressure). The recalibration should occur within 30 seconds, once the machine has reached a consistent elevation level. The audible alarm can be silenced using the touch screen during the ascent/descent. If you intend to install or have installed the RESPA Advisor+ on a machine that will frequently be changing elevation, contact your Sy-Klone sales representative to discuss application guidance.

Q: My touchscreen doesn't always respond. How can I get it to respond better?

A: Using a stylus or similar device often allows the touchscreen to respond better. If the problem continues, contact us via our website (<https://www.sy-klone.com/contact-us.html>) for technical support.

Q: On the home screen, the pressure reading has a black background. What does it mean?

A: A black or gray background means the monitor and the APS box are not connected. To connect the devices, go into Settings, select Bluetooth, and manually scan for, and connect, the APS. If it is not shown on the list of connected devices, follow the reconnecting instruction in Section 6: Bluetooth Settings included in the operation manual. You can view / download the manual by following this link: <https://bit.ly/3z8BNwP>.

Q: The readings on the home screen change color. What do the colors mean?

A: The display for pressure, filter life, and CO₂ change color according to their status. Green means conditions are good and within defined ranges. As pressure and CO₂ conditions approach the bounds of defined ranges, the color will change to amber (yellow) and when they reach alert levels, will change to red. If you have configured filter life tracking, as the filter approaches its maximum filter life, the color of the filter reading will change to yellow, then red. View / download the operation manual (<https://bit.ly/3z8BNwP>) for complete details.

Operations and General Use Questions & Answers, continued

Q: On the home screen, the filter ID reading is gray. What does it mean?

A: A gray box means filter life tracking has not been set up, which can be done in the Filter Selection menu in Settings. Once configured, the reading will show each installed filter in a color indicating how much filter life remains and the filter life display box can now be selected to see more detailed information on the filter life. View / download the operation manual (<https://bit.ly/3z8BNwP>) for complete details.

Q: When I change the RadialSHIELD® filter, does the filter life reading automatically reset?

A: When the filter is changed, the filter life setting should be reset manually. View / download the operation manual (<https://bit.ly/3z8BNwP>) for complete details on how to reset the filter life tracker.

Q: In what temperature range does the RESPA Advisor+ operate?

A: The monitor and ambient pressure sensor (APS) operate at the following temperate ranges:

- Monitor temperature range inside the cab: -14°F to 140°F (-10°C to 60°C)
- Ambient Pressure Sensor (APS) temperature range outside the cab: -40°F to 176°F (-40°C to 80°C)

Q: What regular maintenance do you recommend?

A: The RESPA Advisor+ does not require maintenance on a regular basis. However, from time to time, the unit may need to be recalibrated. For recalibration instructions, refer to page 15 in the operation manual (<https://bit.ly/3z8BNwP>) for complete details.

Additionally, the Ambient Pressure Sensor (APS) includes a pressure port located on the bottom of the unit that should be inspected periodically to ensure it is not clogged. Sy-Klone recommends this be done every time the RadialSHIELD filter is changed.

Data Downloading and Smartphone App Questions & Answers

Q: I'm receiving Bluetooth errors on the phone app when attempting to scan for devices to download data logs. What's causing these errors?

A: When downloading a data log, an error screen may appear indicating that Bluetooth or Locations must be enabled. Select "OK" and the scan will continue. The data download should progress at this time. If errors still occur, check your mobile phone's Bluetooth setting to make sure it's turned ON.



Q: Where do I find the log data from the app on my phone?

A: Data logs are downloaded onto your smart phone. From your phone, the file may be sent to a desired email address.

For Android devices, visit the link below to learn how to access stored files:

<https://support.google.com/android/answer/9110661?hl=en>

For iOS (Apple) devices, visit the link below to learn how to access the stored files:

<https://support.apple.com/en-us/HT206481>

Q: How much time does the data log cover?

A: The amount of time the data log covers is dependent on how often the data is logged. The information below provides a general guideline. Once the maximum number of records is logged, the oldest data will be overwritten with newer data. The data logging interval can be changed in the settings. View / download the operation manual (<https://bit.ly/3z8BNwP>) for complete details.

- @1 sec interval, the log will be approximately 1 hour
- @10 sec interval, the log will be approximately 10 hours
- @30 sec interval, the log will be approximately 30 hours
- @1 min interval, the log will be approximately 60 hours
- @10 min interval, the log will be approximately 600 hours

Q: I'm receiving inaccurate data in the data logs. How can I fix this?

A: If this occurs, Sy-Klone recommends resetting the data logs by pressing the confirm button (green check mark on the Data Logging Menu screen, in the settings on the Monitor). This will reset the logs and new, accurate data will be collected.