

RESPA ADVISOR+ 2.0

PRESSURE + DUST + CO₂ MONITORING SYSTEM

FREQUENTLY ASKED QUESTIONS

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General / Product-Related Questions & Answers

Q: What are the main differences between the RESPA Advisor+ and RESPA Advisor+ 2.0?

A: The original RESPA Advisor+ is a CO₂ and pressure monitor. It features 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 + 2.0 is an in-cab pressure, CO₂, and dust monitoring system. It measures ambient (outside) pressure using a tube that runs from the control module to the exterior of the cab and compares it with the pressure it reads inside the cab. It doesn't rely on Bluetooth to record pressure or download data logs, which are instead downloaded via USB. For users with CAN telemetry systems, SAE J1939 CAN output is available; contact Sy-Klone for details.

Q: How is the pressure differential calculated?

A: The monitor measures pressure inside the cab and compares it to the pressure it registers outside the cab via the ambient pressure tube. An algorithm determines the pressure differential.

Q: The RESPA Advisor+ 2.0 includes an NDIR CO₂ sensor. What makes it different than other CO₂ sensors?

A: ISO 23875 requires a non-dispersive infrared (NDIR) CO₂ sensor, which is considered one of the most accurate CO₂ sensor technology available at the time of product design.

Q: Where can I find the manual and other information for the RESPA Advisor+ 2.0?

A: The comprehensive operation manual is available online by following this link: <https://www.sy-klone.com/RAinfo>, where you will also find firmware updates to keep your system current.

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

A: The RESPA Advisor+ 2.0 comes with Sy-Klone's standard product warranty for electronic devices. Follow this link for more details: <https://www.sy-klone.com/sy-klone-limited-warranty.html>

Installation Questions & Answers

Q: Where do you recommend mounting the RESPA Advisor+ 2.0 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, if allowed by 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 control module?

A: Anywhere inside the cab that does not exceed the length of the connection cable to the monitor. It can be out of the way as it does not need to be viewed or touched by the operator. Make sure the location you select won't pinch or squish the ambient pressure hose, and the USB port is accessible for data log downloads

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+ 2.0 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 5.5 feet (1.67 m) long. An RCF2915 wiring kit can lengthen it another 10-15 feet (3.05-4.57 m), as needed.

Operations and General Use Questions & Answers

Q: After installing the RESPA Advisor+ 2.0, 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: 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. Do not use anything that can scratch the screen. If the problem continues, contact us via our website (<https://www.sy-klone.com/contact-us.html>) for technical support.

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

A: The display for pressure, dust, filter life, and CO₂ change color according to their status.

- Green means conditions are good and within defined ranges, and red means conditions have deteriorated to alert levels (as defined in Settings).
- 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.
- The dust indicator changes from green to red when the threshold has been exceeded for longer than the delay setting.
- If you have configured filter life tracking, as the filter approaches its maximum filter life, the color of the filter reading will change to amber, then red.

View / download the operation manual (<https://www.sy-klone.com/RAinfo>) 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://www.sy-klone.com/RAinfo>) 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://www.sy-klone.com/RAinfo>) for complete details on how to reset the filter life tracker.

Q: Within what temperature range does the RESPA Advisor+ 2.0 operate?

A: The monitor and control module operate between 14°F to 140°F (-10°C to 60°C)

Q: What regular maintenance do you recommend?

A: The RESPA Advisor+ 2.0 does not require regular maintenance. However, from time to time, the unit may need to be recalibrated. For recalibration instructions, refer to the operation manual (<https://www.sy-klone.com/RAinfo>) for complete details.

Additionally, it may be beneficial to reset the date and time every few months, or more frequently for more accurate timekeeping in the data logs. For instructions on resetting the date and time, refer to the operation manual (<https://www.sy-klone.com/RAinfo>) for complete details.

Data Downloading Questions & Answers

Q: How do I retrieve the data logs?

A: Use a USB flash drive to download the data logs from the control module. Note that if you attempt to use the same USB for downloading data from multiple devices at once, the data will be overwritten with the data from the last data retrieval. For instructions on downloading the data logs, refer to the operation manual (<https://www.sy-klone.com/RAinfo>) for complete details.

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. Refer to the operation manual (<https://www.sy-klone.com/RAinfo>) for complete details.

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