

RADIANT TECHNOLOGY

SafeAlt™

*Portable Altimeter and VSI Combo instrument with analog and digital representation, support for Metric operation, **with settable altitude alarm**. Dial and altitude change to red when altitude exceeded. Also has aural alarm which may be muted.*

Technical Specifications / Operation

Last updated March 13, 2025

RADIANT Technology's GEN2 instruments include SafeAlt, which is a complete altimeter and VSI combo, along with a settable alarm.

General technical specifications:

- Sunlight readable.
- Dimmable for night operation.
- Battery Life of 5+ hours; USB rechargeable.
- Configurable altitude alarm changes the dial to red and produces aural alarm.
- Altimeter range: 0 to 20K feet (will not show below zero altitudes). (Metric format also supported.)
- VSI range: +/- 1999 feet per minute. (Metric format also supported.)
- Altimeter display type: analog dual needle representation supplemented by digital value. Digital value may be either feet or meters, user selectable.
- VSI display type: analog single needle supplemented by digital value.
- Feet or meters, user selectable.
- Kollsman window: digital, either inches mercury or KPa mercury. (EG: 29.92 or 1013)



SafeAlt

Operation:



- Charge for 4 hours before use.
- Turn the unit on.
- The brightness may be dimmed to night mode by pressing either button for more than 5 seconds.
- To adjust for local pressure, touch the UP or DOWN buttons briefly. The value of the Kollsman window will change. Touching both buttons briefly will reset the value to 29.92.
- Read the altimeter and VSI values off either the analog representation or the digital representation. If in METRIC mode, the VSI / ALTITUDE / KOLLSMAN windows will appear in meters or KPa. The needle representations are always in feet, without regard to mode.
- The purpose of this unit is to act as a normal aircraft altimeter **with a settable altitude alarm**. Set your Kollsman window to the correct local pressure, as you would with any aircraft altimeter. If you are using this device in a pressurized aircraft (which includes all commercial aircraft), set the value to 29.92.
- The altitude alarm value is always shown in the upper left corner of the screen.
- When the indicated altitude exceeds this value, the dial will change to red, as will the digital altitude. An alarm also sounds.



- Press either button to mute the aural alarm. It will remain muted until the unit is power cycled.
- When the display starts to dim or cutout, it's time to charge the battery, or attach a USB power source. A red LED is visible through a small hole, very close to the USB port. This indicates that charging is occurring. When the red LED goes very dim, charging is complete.

Setup:

- [SETUP] – Touch AND HOLD either button prior to and while powering up. As the unit powers up, “SETUP” will appear on the home screen. Release the button, and the altitude alarm value will appear on the screen. The unit has a value of 12,000 feet as default. Briefly press either button to move this value up or down in 500 foot increments. When satisfied, press either button for more than five seconds.



- [SETUP continued] – a second screen will appear showing FEET and METERS over the button. Touch either button for more than five seconds, indicating your selection of mode. The unit will then proceed to normal operation.



DISCLAIMERS:

Products from Radiant Technology are not designed to be used in applications where their failure would endanger safe flight or human life in any way.

They are intended solely for use in VFR conditions. They are not certified to meet any Technical Standard Order and are not produced under a Parts Manufacturing Authority (TSO / PMA). As a result, if permanently installed in the aircraft, they are suitable only for use in experimental and ultralight aircraft, and in Light Sport Aircraft, if meeting the requirements of the respective manufacturer.

WARRANTY:

Your new Radiant Technology instrument carries a three-year warranty, from the invoice date. Please contact us at support@radiantinstruments.com should your product need warranty service. There is an additional charge for international warranty service.

RETURN / REFUND INFORMATION:

Must be returned in new, uninstalled, resalable condition within 14 days after receipt. Ship to Radiant Technology, PO Box 20690, Wichita KS 67208.