

March 31, 2022, ComancheZOOM

Title: **Carbon monoxide detector**
with Dr. Kosmas ("Dr Koz") Galatsis

Carbon Monoxide (CO) is a colorless, odorless gas created as a byproduct of combustion in an aircraft engine. There is a real possibility that it can enter the aircraft cabin through leaks in the muffler/heat shroud, through cabin openings, and particularly through vents when idling on the ground.

The NTSB has identified CO poisoning as the cause of 31 General Aviation accidents, with 42 fatalities and 4 injuries, in the period from 1982 to 2020. A 2004 recommendation by the NTSB to the FAA on CO detection was not acted upon. This has prompted a second NTSB recommendation to require CO detection monitors in all GA aircraft with enclosed cabins and forward mounted engines. This full recommendation can be seen at [go.usa.gov/xtkpw](https://www.go.usa.gov/xtkpw).



As an aircraft climbs the relative oxygen level drops. However, the engine still produces about the same amount of CO. The overall effect is a potentially higher level of CO in the cabin atmosphere. The degenerative effect of CO poisoning is further increased by a pilot's susceptibility to altitude impairment (hypoxia) due to health issues and/or age.

Dr. Koz invented his carbon monoxide detector while doing a PhD in Melbourne AU. The units alarm at various detection levels: 9ppm first alarm (flashing), 25ppm (flashing & buzzer). There is a 60 second delay built in so that a transient spike won't alarm. The units are also relatively inexpensive.

You can purchase a model CR001 CO Detector on Dr. Koz's website at ForensicsDetectors.Com. The list price is \$99 but it is available at a special group buy offer for \$90 with free shipping. Use the code NCT10 on checkout.

Tune in for this revealing discussion while Dr. Koz answers many questions on the issue and about the CR001 CO detector.

"The life you save..."

To hear/see the recording click on a link below.

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