



Carbon Monoxide Poisoning Risks According to the Experts



CO Level (ppm)	Risks And Symptoms
1-4	Ambient Air Level - No Risk
3-7	6% increase in hospital admissions of non-elderly for asthma (Sheppard, 1999)
5-6	Significant risk of low birth weight if exposed in last trimester (Ritz & Yu, 1999)
7	Level 1 Alarm on Low Level Monitor from Bel Red
9	ASHRAE Standard for allowable spillage from vented appliances, indoors, for up to 8 hours EPA standard for outdoors, up to 8 hours, 3 times per year
15-20	Causes impaired performance (World Health Organization)
25	Level 2 Alarm on Low Level Monitor from Bel Red
27	21% increase in cardio-respiratory complaints (Kurt, 1978)
30	Earliest onset of exercise induced angina (World Health Organization) CDC/NIOSH recommended 8 hour maximum
35	EPA Standard for outdoors for up to 1 hour, 1 time per year Many fire departments require breathing apparatus before entering building Level 3 Alarm on Low Level Monitor from Bel Red

CO Level (ppm)	Risks And Symptoms
50	OSHA recommended 8 hour maximum workplace exposure Level Level 3 Alarm on Low Level Monitor from Bel Red
70	1st Alarm of UL 2034 Approved CO Alarms after 2-4 hours Level 4 Alarm on Low Level Monitor from Bel Red
100	Maximum CO level in undiluted flue gases from appliances (Building Performance Institute) "High" Alarm on Low Level Monitor from Bel Red
200	1st symptoms in adults (headaches and nausea) OSHA recommends workplace evacuation Maximum CO level in air-free flue gases from vented appliances (Building Performance Institute) UL approved alarms must sound between 30-60 minutes
400	Healthy Adults will have headaches within 1-2 hours. Life threatening after 3 hours. Maximum EPA level for industrial flue exhaust
800	Healthy adults have nausea, dizziness and convulsions within 45 minutes. Unconscious within 2 hours, then death.
> 800	Death within one hour
3000+	Death in less than 30 minutes

Call your local fire department and ask them, "What level of CO is safe?"

The Truth About Carbon Monoxide Alarms

“Every year over 600 Americans die due to accidental acute Carbon Monoxide poisoning. Over 20,000 are made ill and treated for CO poisoning.” Centers for Disease Control

In one Kentucky study, nearly one-fourth of hospital emergency room patients complaining of the flu were actually suffering from CO poisoning.

“For every single case of chronic carbon monoxide poisoning reported / successfully diagnosed, there are 10 cases that go unreported / undiscovered / undiagnosed. If you were able to choose the kind of brain injury you were to incur, it would be better in terms of the potential for recovery to have a stroke, concussion in a motor vehicle accident, etc. than carbon monoxide poisoning.”

David G. Penney, Ph.D., Wayne State University

If you have a Carbon Monoxide (CO) Alarm in your home, you may think it is protecting you. Much of what we thought we knew about Carbon Monoxide Alarms turns out to be **dangerously wrong**:

MYTH #1

“I already have a CO Alarm, so my family is protected.”

Unlike smoke detectors, most **CO alarm sensors have a very limited lifespan** ... usually only 2 to 3 years. If your alarm is over two years old, it cannot be counted on to work.

MYTH #2

“When I press the TEST button, my CO Alarm sounds, so it must be still working.”

Almost all models that have a test feature **only test the battery and horn, not the CO sensor**. The horn may chirp when the button is pressed, but the sensor may never sense the presence of actual carbon monoxide in your home.

MYTH #3

“I just bought a new CO Alarm, so I’m sure it’s working and will protect my family.”

This is perhaps the most shocking myth of all. Due to the inaccuracy of most standard CO detectors, **UL listed models have been “dumbed-down” to prevent “false-alarms”**, only alarming at relatively high levels after a significant period of time. CO levels that can cause headaches, flu like symptoms, permanent brain damage, depression, muscle and joint pains, even SIDS, will simply not be detected, putting you and your family at risk. **A standard alarm may keep you from dying, but it probably won’t keep you from getting sick.**

Protect Your Family With A CO Monitor You Can Count On

To protect the health of you and your loved ones, Bel Red offers a highly accurate Low-Level Carbon Monoxide Monitor. It senses Carbon Monoxide at very low levels, and can **alert you to potential CO risks before they become problems**. A Low Level CO Monitor from Bel Red provides peace-of-mind with:

- Highly accurate electrochemical sensor like in professional instruments
- Sampling every 10-seconds for real-time protection
- Battery powered for safety you can count on, even during power outages
- Digital display and 2.5 year memory recall to identify potential problems
- Low battery, electronic error and sensor life replacement warnings
- A life span up to 5 years, double that of many standard CO detectors

This advanced CO Alarm is not available in stores. Protect your family from the dangers of Carbon Monoxide, and have Bel Red install a Low-Level CO Monitor for you today!



www.belred.com

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