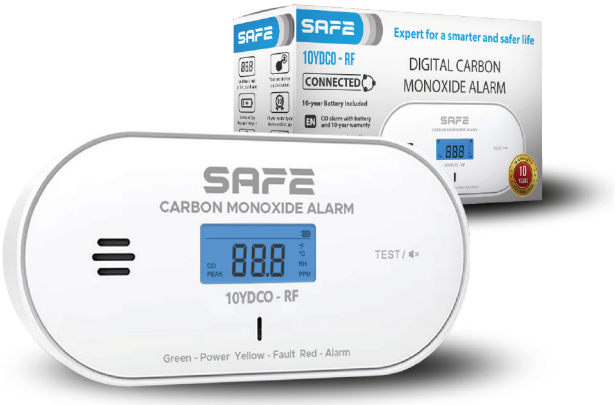
Product line CONNECTED

10YDCO-RF

FireSAFE Wireless Carbon Monoxide Detector with breakthrough detection using second-generation electrochemical sensor and color LCD display and 10-year warranty on both device and built-in battery



CONNECTED wireless FireSAFE device connectivity

- For safe, stable and reliable communication, the system has its own FireSAFE radio technology between individual devices operating at a frequency of 868 MHz
- The detector includes an integrated RF module, which thanks to the CONNECTED function allows wireless connection of two or more FireSAFE detectors and thus creating a mutually interconnected wireless network

Support for connection of up to 24 FireSAFE devices

- Supports connection of up to 24 detectors and devices of the continuously growing FireSAFE CONNECTED portfolio
- An intelligent central control unit FireSAFE Hub can be added to the wireless network, which allows convenient setting and control of the complex FireSAFE system
- Easy installation of individual devices without the need for cabling

Multifunctional backlit LCD display

- Memory function of the highest measured value
- Recording information about the highest measured CO concentration
- Temporary mute function
- Test function to verify correct detector operation
- End of life signalization

Battery operation for up to 10 years

- Integrated 3 V lithium battery (built-in, non-replaceable)
- Guaranteed operating performance for up to a full decade
- Battery operation enabling quick and easy installation

Environmental functions

- The backlit multifunctional LCD display in standby mode alternately shows the current room temperature and humidity information in the monitored space, thus enabling response to dangerously low or conversely high humidity or temperature conditions of the environment
- Temperature level display can be set based on preferences in degrees Celsius (°C) or Fahrenheit (°F)

Construction with free installation option

- Detector housing construction allows installation by placing the device in an optimal position on a horizontal surface
- Fixed installation is not required

Electrochemical CO sensor

- Second generation electrochemical sensor with de-ionized water electrolyte contains no ions that could affect measurement accuracy or cause unwanted side reactions
- Provides reliable and accurate data on CO concentration in the monitored space and at the same time represents a device with stable performance and long service life
- Responds only to real threat

IZOVAX protection

- Electronic components and printed circuit board of the detector are provided with an insulating and protective layer of varnish with IZOVAX nanoparticles protecting the device electronics even in very humid environments

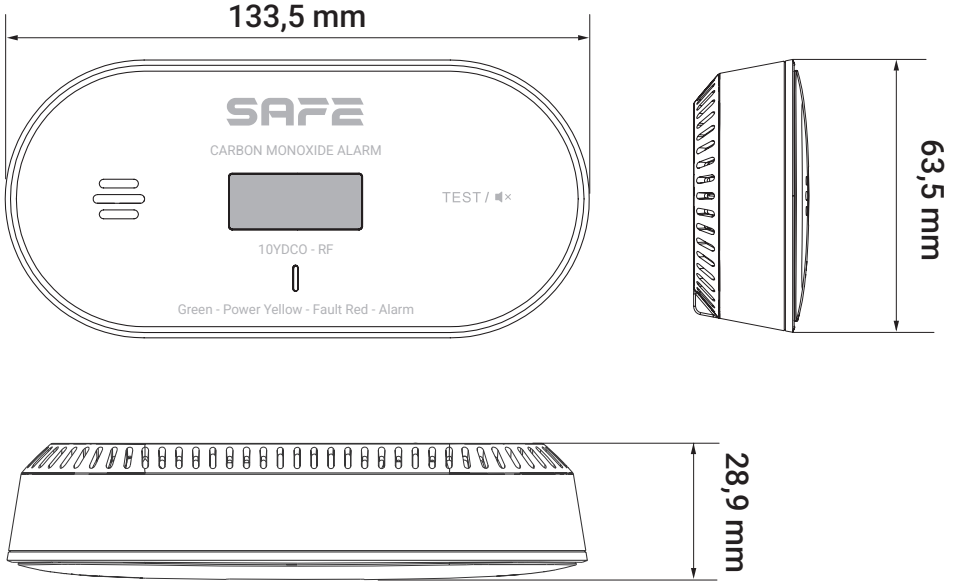
Certification

- SAFE 10YDCO-RF carbon monoxide detectors were independently tested by the accredited German laboratory TÜV as a fire safety solution meeting all required European standards for CO detection including ČSN EN 50291-1:2018 and ČSN EN 50291-1:2018/AC:2021

Technical specification

CO detection (carbon monoxide)	Electrochemical sensing technology
Device type	A
Microprocessor	AI SAFE with predictive algorithm
Display	Multifunctional backlit LCD
Environmental function	Temperature and humidity display
Measurement accuracy	• Temperature accuracy ±0.1 °C • Humidity accuracy ±1.5 % RH
Operating radio frequency	868 MHz
Radio signal range	Up to 1000 m in open space
Alarm muting	Manual - button for muting
Muting duration	9 minutes
Preset alarm value	• 30 ppm: 120 min • 50 ppm: 60 min - 90 min • 100 ppm: 10 min - 40 min • 300 ppm: < 3 min
PCB protection	Insulating and protective varnish layer with IZOVAX nanoparticles
Power supply	3V DC, 1x CR123A lithium battery (non-replaceable)
Power consumption	• Standby mode: ≤15 uA • During alarm: ≤35 mA
Battery life	10 years
LED indication	Alarm, operation and fault
Alarm	Red LED indicator
Operation	Green LED indicator
Malfunction	Yellow LED indicator
Alarm signaling	• Optical - three-color LED indicator • Optical - backlit LCD display • Acoustic - ≥85 dB at 3 m
Installation method	Wall mounted; on horizontal surface
Housing material	PC + ABS
Housing color	White
Degree of protection	IP30
Operating temperature	-10 °C to +55 °C
Operating humidity	Up to 95 % relative humidity without condensation
Storage conditions	• Temperature: -20 °C to +60 °C • Humidity: 5 % to 95 % relative humidity without condensation
Certification	ČSN-EN 50291-1:2018 ČSN EN 50291-1:2018/AC:2021
Declaration of conformity	CE
Warranty	10 years (on device and battery)
Product dimensions	133.5 × 63.5 × 28.9 mm
Product weight	122 g (including battery)
Product dackaging dimensions	45 x 80 x 135 mm
Product packaging weight	193 g
Carton dimensions	540 x 430 x 335 mm
Carton weight	20.1 kg
Number of units per carton	96 pcs
EAN Code	0703123018241

Product dimensions



Producer: SAFE HOME europe s r.o., Čechova 1005/4, 750 02 Přerov, Czech Republic www.smart-safe.eu info@safe-home.eu