USB-COUSB Carbon Monoxide Logger



- 0 to 1000 ppm CO measurement range
- Stores up to 32,510 measurements
- User-programmable warning threshold with bright visual and audible warnings
- USB interface for set-up and data download
- Expected sensor life: 4 years
- Supplied with replaceable internal lithium battery and Windows control software



This standalone data logger measures and stores up to 32,510 Carbon Monoxide (CO) readings over a 0 to 1000 ppm measurement range and -10 to +40°C (14 to +104°F) operating temperature range. The user can easily set up the logging rate and start time, and download the stored data by plugging the data logger into a PC's USB port and running the purpose designed software under Windows 2000, XP and Vista (32-bit). The data can then be graphed, printed and exported to other applications. The data logger is supplied complete with a long-life lithium battery. Data is stored in non-volatile memory and is retained when the battery is empty. A bright red LED will flash and a buzzer can sound when a preset warning level has been exceeded.

IMPORTANT SAFETY WARNING

DO NOT ATTEMPT TO USE THE USB-CO WITHOUT READING AND UNDERSTANDING THE DOCUMENTATION. CARBON MONOXIDE MONITORING IS A COMPLEX PROCEDURE. IF THERE IS ANY DOUBT AS TO THE SAFETY OR APPLICATION - STOP! CONSULT A QUALIFIED EXPERT.

The USB-CO is a professional measuring instrument, designed to record Carbon Monoxide (CO) gas levels for later analysis. It is not an alarm/safety/warning device and should not be used in this capacity for the following reasons:

- 1. The lights and sound emitted by the USB-CO to indicate a high level of CO do not provide adequate warning to those in the surrounding area that a high level of CO has been recorded.
- 2. The battery life of the USB-CO during audible and visual indication of a high level of CO will rapidly diminish and will therefore only be active for a short period of time.
- 3. The USB-CO takes a sample reading at intervals as set by the user for recording/monitoring/analysis purposes. Dangerous levels of CO will not register with the device until a sample reading is taken.
- 4. Due to the limitations of the device as a professional instrument, it is left to the user to set the light and sound alarms indicating the presence of CO. Therefore the instrument can be set up to provide NO form of warning.

Carbon Monoxide is poisonous. It is a clear, colorless gas that has no smell or taste and can be lethal even in very low concentrations. It can injure or kill people and animals who are not adequately warned of its presence.

In areas where the safety of humans and animals is a concern we insist that a domestic or industrial CO detector/alarm, designed to a nationally approved quality standard, with features such as a high decibel alarm or siren and a clear visual warning, specifically designed to provide adequate warning of dangerous CO levels, be installed, used and maintained.

USB-CO Datasheet Issue 01 01/04/2015

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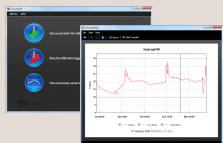


FREE PC CONTROL SOFTWARE POWERED BY EASYLOG

The FilesThruTheAirTM control software is available as a free download from www.filesthrutheair.com. Easy to install and use, the control software is compatible with 32-bit and 64-bit versions of Windows XP, Vista, 7 & 8. The software is used to set up the logger, download, graph and annotate data or export in Excel, PDF and jpeg formats.

The software allows the following parameters to be configured:

- Logger name
- Measurement parameter (°C or °F)
- Logging rate (customisable between 1 second and 12 hours)
- High and low alarms
- Immediate and delayed logging start



Download the latest version of the software free of charge from www.filesthrutheair.com

Specifications	Minimum	Typical	Maximum	Unit
Measurement range	3		1000*	ppm CO
Internal resolution		0.5		ppm CO
Accuracy (overall error)	±2 ppm	±6%		
Repeatability		±3		%
Long Term Drift			5	% / year
Zero Offset		±2		ppm CO
Response time (to reach 90%)		1		Minute
Logging rate	every 10 s		every 5 min	-
Operating temperature range (15-90 %RH, non-condensing)	-10 (+14)		+40 (+104)	°C (°F)
Operating pressure range	900		1100	mBar
1/2AA 3.6V Lithium Battery Life			3**	Month

^{*} do not expose to levels above 1000ppm (ie directly measuring the exhaust of a car or wood burner)

LED FLASHING MODES

USB-CO features a red and a green LED.

By default hold is disabled. In this mode the red LED will no longer continue to flash after the logged reading has returned to normal from an alarm condition.

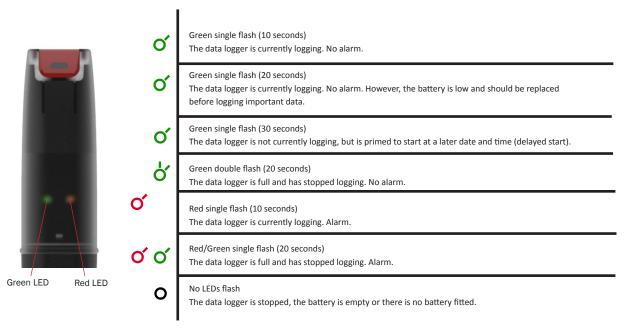
Hold can be turned on via the control software. In this mode the red LED that indicates an alarm condition will continue to flash, even after the logged reading has returned to normal. This feature ensures that the user is notified that an alarm level has been exceeded, without the need to download the data from the logger.

^{**} with battery supplied, 5 minute logging rate, 25°C ambient temperature, audible warning disabled, reading < 10ppm CO

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The LEDs on an USB-CO will flash in one of the following ways, assuming hold of the warning threshold has been turned off in the free PC control software:



AUDIBLE WARNING

The audible warning will sound once per second when the warning threshold has been exceeded. To disable the warning, remove the cap from the data logger.

The audible warning will sound once every 60 seconds when there is a low battery condition. This indicates that the battery must be replaced.

BATTERY REPLACEMENT

We recommend that you replace the battery every 12 months, or prior to logging critical data.

The USB-CO does not lose its stored readings when the battery is discharged or when the battery is replaced; however, the data logging process will be stopped and cannot be re-started until the battery has been replaced and the logged data has been downloaded to PC.

Only use 3.6V 1/2AA lithum batteries. Check with your supplier that the battery you are ordering is 'press fit' and is not fitted with solder tags. Before replacing the battery, remove the USB-E from the PC.

Note: Leaving the USB-CO plugged into the USB port for longer than necessary will cause some of the battery capacity to be lost.

WARNING

Handle lithium batteries carefully, observe warnings on battery casing. Dispose of in accordance with local regulations.