CUBO₂

PORTABLE MULTI ANALYSER

Small, reliable, versatile, ergonomic and intuitive, CubO2 is a multi-analysis tool that can simultaneously analyse various atmospheric parameters: the levels of oxygen, carbon monoxide, and volatile gases, the temperature, relative and absolute humidity and the atmospheric pressure. It is specially designed for personnel monitoring within workplaces and as a networked datalogger. CubO2 is a surprising, highly precise and reliable device, with a broad range of features that make it the new market reference for pocket instruments.

CUBO2

PORTABLE MULTI ANALYSER

Compact, versatile and ergonomic

Attractive, practical and pocket-sized design. CubO2 can simultaneously measure no less than 6 different atmospheric parameters. When not powered by the mains, it can run for up to 8 hours off its battery. The instrument is equipped with a broad range of user-definable functions, including alarm thresholds for each physical quantity it measures, the choice of the type of alarm (vibration, sound, light), configurable data-logging (choice of quantities to be sampled on the SD card and the sampling times), setting of dwell times in measurement locations with programmable count-down, altimeter, clock, and alarm clock.

Display

On its back-lit, touch display, users can easily navigate the various screens with settings and viewable information and fully customize all of the instrument's functions, including the warning and alarm thresholds and the information to be displayed on the main screen. Access to all of the instrument's security settings is password protected.

Innovative technology with miniaturized sensors

CubO2 boasts the most innovative sensor technology currently on the market. Despite its small size, the instrument's range of sensors rivals that of most bench measuring instruments.

The openings around CubO2 ensure optimal propagation of gases inside the instrument and a minimal inertia.

In addition to ensuring a safety until now unthinkable in this class of instruments, its dual solid state oxygen sensor has a reaction time on average an order of magnitude lower than electrochemical sensors and a quality of measurement that is unattainable with those sensors. In addition, it boasts a lifetime comparable to that of zirconium oxide sensors.

The measurements of its oxygen and carbon monoxide sensors are temperature- and pressure-compensated to ensure maximum analysis precision in all circumstances.

The instrument also constantly monitors the health of its sensors and reports any anomalies in their operation.

Alarm and warning functions

All of the instrument's safety function parameters can be customizable on password protected screens. Among these, the operator can change the alarm thresholds for each measurable physical quantity (O2, CO, VOC, temperature, pressure, altitude, relative humidity).

Alarms can be set to turn on or off the 2 red LEDs located on the front and on the back of the instrument, the 80 dB buzzer and the vibration alarm.

Regardless of the settings, however, if one of the alarm thresholds is exceeded, the instrument's display will flash to report the event.

In addition to the alarms related to the measurements carried out, the instrument can be configured to report when the set dwell time for the measurement location has been reached.

It also reports the occurrence of a failure of one of its sensors and if the battery is low.

Test and calibration mode

CubO2 can perform a self test of its sensors and perform the calibration of the zero and span of the instrument. Of course these actions are accessible via password protected screens.

Data Logger

The instrument is equipped with a micro SD memory card slot. The amount of data that can be recorded is only limited by the size of the memory the user chooses to install. Once the memory is installed, the instrument recognizes it and automatically enables the data logging function. These functions are fully configurable: The user can choose individually which physical quantities to record and with what time interval.

The measurements are saved to text files that are easily readable on a PC. The exact time and date of sampling are logged with the measurements of the physical quantities to be recorded.

In addition, the instrument is equipped with an RS-485 port and can be connected as a slave to a Modbus network to act as a remote analyser.

It can also be connected, via a suitable interface, to a PC and can be controlled by means of dedicated CubO2 software from the PC itself.

Power Supply

CubO2 is equipped with a rechargeable lithium battery, which provides approximately 7 hours of continuous operation when not connected to a power supply. Its practical micro-USB port can be used to continuously power and charge the instrument, using a common mobile phone charger. Alternatively, the instrument can also be powered via the RS485 port.

Also in this case, the power supplied, besides powering the CubO2, provides energy to recharge the battery.

Touchscreen Display

RS 485 MOD

LED Ala

SD CARD

Micro USB

80 dB Buzer with vibration alarm

Dimensions 70x70x30mm