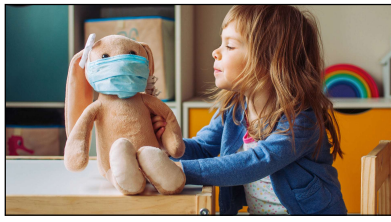
Driesen + Kern

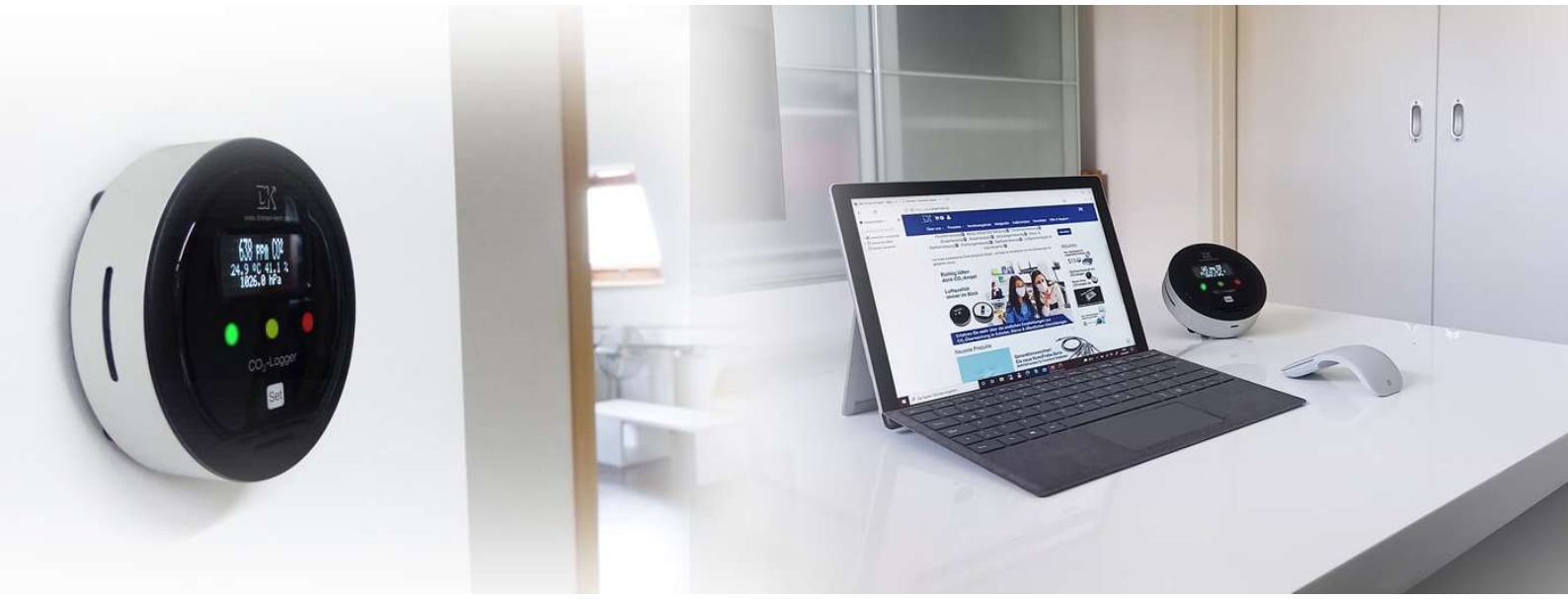
Data Logger for Indoor Air Quality

DKCO2-Log



CO_2 Data Logger DKCO2-Log

CO_2, Humidity, Temperature and Barometric Pressure



DKCO2-Log - Data Logger for CO_2, humidity, temperature and barometric pressure
The DKCO2-Log was developed from our indoor air monitors which use a traffic light style indication. In addition to these easy and convenient LED indicators, the DKCO2-Log comes with an internal memory for simultaneous recording of CO_2, temperature, relative humidity and barometric pressure.

IAQ and ventilation monitoring
Since the beginning of global Corona pandemic, closed rooms are required to be effectively supplied with fresh air in order to reduce risk of infection indoors. Recent studies show that aerosols carrying viral load are the most common way of infection. Tiny aerosols are emitted by coughing, sneezing, talking and even breathing normally. CO_2 is also breathed out by humans and is thus often used as an easy to measure surrogate for indoor pullutants.
IAQ monitors measuring CO_2 can therefore help detect inadequate ventilation, e. g. in class rooms or day-care facilities, and decrease the risk of infection.

The DKCO2-Log visualises indoor air quality by its traffic light style LED indicators and displays all measurement parameters on the large LCD. Document, verify and improve your ventilation measures with data recorded with the DKCO2-Log.

CO_2 also causes impaired cognitive performance and energy
Increased levels of carbon dioxide are known to impair cognitive performance and energy levels in humans thus reducing the ability to concentrate and productivity.
This is also true for uneasy temperature and humidity conditions, which can also be measured and recorded with the DKCO2-Log.
It helps establish adequate and need-based ventilation in day-care facilities, schools, universities and in the workplace.

Features
Traffic light style LED indicators (adjustable thresholds)
Maintenance-free NDIR CO_2 sensor
Long lifespan and excellent long-term stability
Audible alarm (enable/disable using InfraLog)
Free software InfraLog Basic
Battery operation or USB power supply operation
Pressure-compensated precision CO_2 measurements
Optional: wall holder, laptop lock, certificate of calibration, software upgrades with charts and reports

Lack of concentration and fatigue caused by high levels of CO_2

Thresholds
Indoor CO_2 levels below 1000 ppm are generally considered to indicate good air quality. Germany's Federal Environmental Agency recommends ventilation measures in offices or class rooms once CO_2 levels exceed 1000 ppm.

While indoor air monitors are being used to monitor CO_2 levels in real time, the DKCO2-Log also provides reliable recordings which can be used to verify or document health and safety measures, and contribute to scientific studies.

Traffic Light Style

Red: CO_2 levels exceeding 1500/2000 ppm* require immediate supply of fresh air. Thresholds can be adjusted using InfraLog.

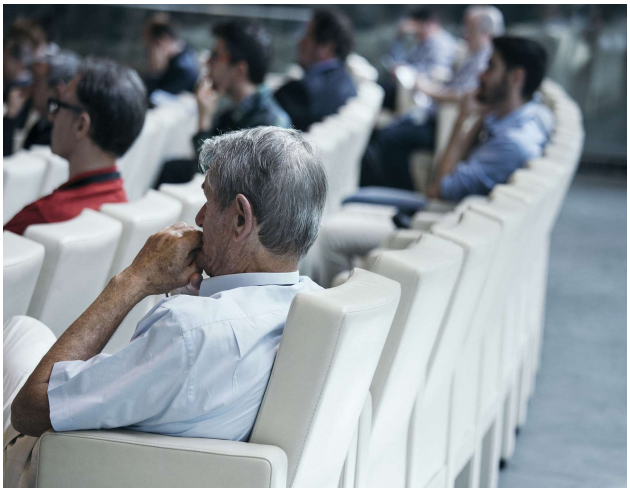
Amber: Above 1000 ppm there is a higher risk of infection, ventilation should be commenced.

Green: CO_2 concentration below 1000 ppm indicates hygienically sufficient ventilation.

*Germany's Federal Environment Agency defines CO_2 levels between 1000 and 2000 ppm in indoor air as problematic and recommends an increase in ventilation. Concentrations above 2000 ppm are considered unacceptable and require immediate remedial measures.

Fields of Application

Schools
Day-care facilities
Conference rooms
Work stations
Residential buildings
Waiting rooms
Restaurants
Factory buildings
Green houses
Ripening processes in food



Software InfraLog for Windows V5

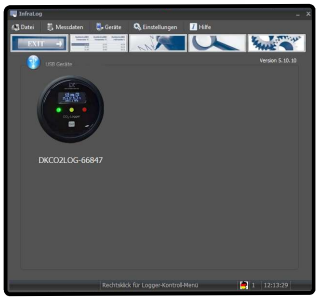
for the DKCO2-Log

Easy - Reliable - Convenient
Easily, reliably and conveniently configure and control all of Driesen + Kern's data loggers with our InfraLog software. InfraLog automatically detects connected devices and can be run on all recent Windows based computers such as PCs, notebooks or tablets.

The DKCO2-Log benefits from a broad range of features already included in InfraLog Basic: configuration, start / stop, data download, saving real-time readings and export for Excel.

InfraLog Basic is included in delivery (free download), but you can also upgrade to InfraLog Light (graphic charts) or InfraLog Enhanced (includes daily/weekly/montly/annual reports) both of which offer advanced features.

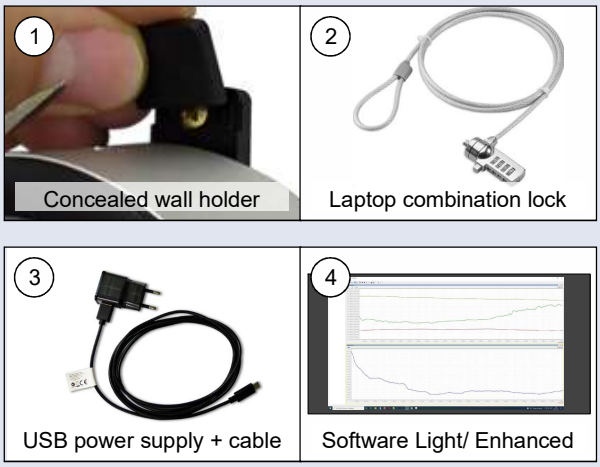
InfraLog updates are provided on our website and can be downloaded free of charge.



Order Codes

Model	Order No.
DKCO2-Log for CO_2, humidity, temperature and barometric pressure	DKLL1010
Concealed wall holder	DKLZ0010
Laptop combination lock	DKLZ0020
USB power supply with 1.8 m cable	DKLMLZ0030
Software InfraLog Light	InfraLog00040
Software InfraLog Enhanced	InfraLog00050

Optional Accessories



Specifications

DKCO2-Log (integrierte Sensoren)	**Measuring Range**	**Resolution**	**Accuracy**
CO_2	0...5000 0...10000 ppm (optional)	1 ppm	±30 ppm + 3% of reading ±5% of reading
Relative Humidity	0...100% RH (non-condensing)	0.01% RH	±2.5% RH <80% RH / ±3%RH > 80% RH
Temperature	0...50°C	0.01 K	±0.3°C
Barometric Pressure	70...1300 hPa	0.1 hPa	±2 hPa

Long-term stability: 15 years thanks to self-correcting algorithm

Dimensions: D=120, H=40 mm

Thresholds:
By default amber > 1000 ppm, red > 1500 ppm
Both can be adjusted using InfraLog

Audible Alarm: Internal buzzer, triggers at red level (disengageable)

LED indicators:
green: flashes every 5 seconds
amber: flashes every 2 seconds
red: flashes every second

LEDs are permanently lit when powered by USB wall adapter

Power Supply:
Included in delivery: 3x type AA alkaline batteries, internal battery compartment, table stand
Battery life expectancy: ca. 6-12 months (with LCD switched off)

Data Logging:
Interval: 1 minute ... 24 hours
Memory capacity: 4 millionen readings
Software: InfraLog V5 Basic (included)

InfraLog V5 Light with comprehensive graphic charts (optional)

InfraLog V5 Enhanced with additional statistics (optional)

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