Handheld instrument

Display / Controller

Logger / EASYBus

Transmitter

Temperature probe

Alarm / Protection

Indoor climate monitoring
CO2 monitoring

NEW

- large CO2 displaying

- high long-term stability

- air quality rating GOOD / NORMAL / POOR

- humidity / temperature display, real-time clock, calendar

- alarm function

AirCheck 100

The indoor climate should be monitored to avoid exhaustion, lacking concentration and sickness (sick-building-syndrome) due to poor air quality.

The AirCheck 100 is a universal device for fast and continuous monitoring of the indoor climate. The air quality is rated according to its CO2 content measured with the internal long-term stable and maintenance-free infrared sensor (NDIR). After turning-on the AirCheck 100 automatically executes an offset calibration but a manual calibration is possible, too.

The CO2 content is shown on the large and well readable display together with a 3-stage rating of the ambient air (good, normal, poor). The AirCheck can be configured to optically as well as acoustically (80dB) remind to ventilate on time by 2 adjustable alarm boundaries. Temperature and air humidity measurement, real-time clock and calendar complete the device's features.

Application:

- training, conference and break rooms
- housing rooms
- offices, laboratories
- public buildings, schools
- etc.

Specification:

Measuring range:
CO_2:	0 … 2000 ppm
Temperature:	-10 °C … +60 °C
Humidity:	5,0 … +90,0 % r.F.

Resolution:
CO_2:	1 ppm
Temperature:	0,1 °C / 0,1 °F
Humidity:	0,1 % r.F.

Accuracy:
CO_2:	50 ppm ± 5 % of meas. value
Temperature:	± 0,6 °C
Humidity:	± 5 % r.F (@25 °C, 10-90 % r.F.)
	± 7 % r.F (@25 °C, <10 % r.F., > 90 % r.F.)

Response time (T_{90}):
CO_2:	< 2 min
Temperature:	< 2 min
Humidity:	< 10 min

Measuring principle: NDIR (Non-Dispersive InfraRed)

Quality rating:
Good:	< 700 ppm (adjustable)
Normal:	700 … 1000 ppm (adjustable)
Poor:	> „Normal"

Alarm: > 1000 ppm (adjustable)
acoustically: buzzer, 80 dB
visually: ventilator symbol displayed

Working conditions: -10 … +50 °C,
5 … 80 % r.F (avoid condensation)

Storage conditions: -20 … +60 °C, 5 … 90 % r.F. (avoid condensation)

Display: simultaneous display of CO2, temperature, humidity, clock, date

Power supply unit: IN: 100-240VAC, OUT: 5VDC / 0,6A

Dimensions: 120 mm x 85 mm (diameter x depth)

Scope of supply: 1 device, 1 power supply unit, 1 operation manual