



## Indoor Environmental Quality Monitor

### IEQ Chek™

#### IEQ Chek™ Features & Benefits:

- Versatile handheld instrument with flexible 7-sensor capacity
- Ideal for indoor environmental quality measurements
- On-board sensors for temperature and relative humidity; add up to 5 additional plug-and-play 'smart' sensors
- Large multi-line LCD graphic display
- Stores over one million data points with SD flash card
- Optional data download kit with USB connection to PC and IEQ Chek™ software



### Multi-Sensor Flexibility

Bacharach's IEQ Chek™ is a versatile multi-sensor instrument for measuring, monitoring and recording indoor environments for air quality diagnosis. With its 7-sensor capacity, the new IEQ Chek™ measures temperature, relative humidity, and up to 5 additional plug-and-play 'smart' sensors, including carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxygen (O<sub>2</sub>), formaldehyde (HCHO), total volatile organic compounds (TVOCs), nitrogen dioxide (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), ammonia (NH<sub>3</sub>), hydrogen sulfide (H<sub>2</sub>S) and combustible gases. Available with or without an on-board pump for sampling the air, the IEQ Chek™ has a large multi-line backlit LCD display with simultaneous viewing of all installed sensors, battery life, pump indicator and calibration status. Sophisticated, yet simple to use, the instrument has the capability to record and store over one million data points on a SD flash card with the option to download the data via USB connection to a PC using Bacharach's IEQ Chek™ software.

Bacharach's IEQ Chek™ line offers maximum features, flexibility and functionality for indoor environmental quality monitoring, HVAC measurements, ASHRAE/ANSI compliance, process operations in non-hazardous environments and medical/lab applications. The IEQ Chek™ is an ideal tool for identifying energy saving opportunities in over-ventilated spaces, determining if carbon dioxide (CO<sub>2</sub>) build-up is due to insufficient ventilation, pinpointing the presence of carbon monoxide generated from vehicles or appliances, and measuring other air contaminants such as formaldehyde or volatile organic compounds found in paints, chemicals or cleaning products.

# IEQ Chek™ Specifications

**Gases Detected:**

Carbon Dioxide (CO<sub>2</sub>), Carbon Monoxide (CO), Oxygen (O<sub>2</sub>), Formaldehyde (HCHO), Total Volatile Organic Compounds (TVOCs), Nitrogen Dioxide (NO<sub>2</sub>), Nitric Oxide (NO), Sulfur Dioxide (SO<sub>2</sub>), Ammonia (NH<sub>3</sub>), Hydrogen Sulfide (H<sub>2</sub>S) and Combustible Gases

**Detection Principle:**

Non-Dispersive Infrared (NDIR), Electrochemical, Photoionization Detector (PID)

**Range:**

	CO <sub>2</sub>	CO	CO	CO <sub>2</sub>	CO <sub>2</sub>	O <sub>2</sub>
<b>Range:</b>	0-5,000 ppm	0-10,000 ppm	0-5% vol	0-20% vol	0-100% vol	0-25% vol
<b>Resolution:</b>	1 ppm	1 ppm	0.01%	0.01%	1%	0.1%
<b>Accuracy:</b>	±2% over range @ 68° F (20° C) / 1 bar pressure					±0.1% vol over range

**Resolution:**

**Accuracy:**

**Other Measurements:**

**Temperature**

23° F to 131° F (-5° C to 55° C) / 0.1° Resolution

**Relative Humidity**

0-99.9% Non-Condensing / 0.1% Resolution

**Dimensions:**

7.75" L x 3.87" W x 3.06" D (19.7 cm x 9.8 cm x 7.8 cm)

**Weight:**

20 oz (567 g) including batteries

**Housing:**

Rugged ABS/Polycarbonate

**Display:**

Large, Multi-line Backlit LCD Digital Display. Simultaneously Displays all Installed Sensors, Battery Life, Pump Indicator and Calibration Progress Bar

**Alarm:**

80 dB Audible Alarm for One User-Selected Setpoint

**Operating Temperature Range:**

41° F to 122° F (5° C to 50° C)

**Operating Humidity Range:**

0 - 99% RH Non-Condensing

**Data Storage:**

> 1 Million Data Points - Stored to SD Flash Card

**Data Download:**

Optional USB Connection to PC w/ IQ Chek™ Software

**Power:**

3 AA NiMH Rechargeable Batteries; (3 AA Alkaline Batteries can be User Installed); 6 VDC Power Adapter (N.Am. Plug or Intl. Pigtail w/IE320-C13 Socket)

**Run Time:**

12 to 14 Hours (Varies with Sensor Installation)

**Approvals:**

CE Mark: IS EN61010-1:2001; EM/RFI EN 50270:2006

**Warranty:**

Instrument - Two Years; CO<sub>2</sub> Sensor - 1 Year

**Kit Contents:**

Instrument comes with 3 AA NiMH rechargeable batteries, charger/adaptor, calibration adaptor (pump versions only) and user manual

## IEQ Chek™ Part Number Configurator ISAB-CDEF

	Choose 1	Choose 1	Choose 1	Choose 1	Choose 1	Choose 1
1	A	B	C	D	E	F
0 = No sensor	0 = No sensor	0 = No sensor	0 = No sensor	0 = No sensor	0 = No sensor	0 = Do not use
1 = CO <sub>2</sub> (0-5,000 ppm)	1 = IR Combustible (0-5%)	1 = CO	1 = CO	1 = CO	1 = CO	1 = Diffusion, no DataLogging
2 = CO <sub>2</sub> (0-10,000 ppm)	2 = TVOC (0-300 ppm)	2 = O <sub>2</sub>	2 = O <sub>2</sub>	2 = O <sub>2</sub>	2 = O <sub>2</sub>	2 = Pump, no DataLogging
3 = CO <sub>2</sub> (0-5% vol)	3 = TVOC (0-50 ppm)	3 = NH <sub>3</sub>	3 = NO <sub>2</sub>	3 = SO <sub>2</sub>	3 = SO <sub>2</sub>	3 = Diffusion w/ DataLogging
4 = CO <sub>2</sub> (0-20%)		4 = NO	4 = HCHO	4 = H <sub>2</sub> S	4 = H <sub>2</sub> S	4 = Pump w/ DataLogging
5 = CO <sub>2</sub> (0-100% vol)						5 = Diffusion, no DL, ext. battery
						6 = Pump, no DL, ext. battery
						7 = Diffusion w/ DL, ext. battery
						8 = Pump w/ DL, extended battery

## IEQ Chek™ Common Configurations

\*All configurations include Temp and RH

<b>1510-0002</b>	CO <sub>2</sub> (0-5,000 ppm), Pump
<b>1510-0004</b>	CO <sub>2</sub> (0-5,000 ppm), Pump, DataLogging
<b>1510-1001</b>	CO <sub>2</sub> (0-5,000 ppm), CO, Diffusion
<b>1510-1002</b>	CO <sub>2</sub> (0-5,000 ppm), CO, Pump
<b>1510-1003</b>	CO <sub>2</sub> (0-5,000 ppm), CO, Diffusion, DataLogging
<b>1510-1004</b>	CO <sub>2</sub> (0-5,000 ppm), CO, Pump, DataLogging
<b>1510-1302</b>	CO <sub>2</sub> (0-5,000 ppm), CO, NO <sub>2</sub> , Pump
<b>1510-1304</b>	CO <sub>2</sub> (0-5,000 ppm), CO, NO <sub>2</sub> , Pump, DataLogging
<b>1510-1403</b>	CO <sub>2</sub> (0-5,000 ppm), CO, HCHO, Diffusion, DataLogging
<b>1512-1008</b>	CO <sub>2</sub> (0-5,000 ppm), TVOC (0-2,000ppm), CO, Pump, Ext. Battery, DataLogging
<b>1520-0002</b>	CO <sub>2</sub> (0-10,000 ppm), Pump
<b>1520-0003</b>	CO <sub>2</sub> (0-10,000 ppm), Diffusion, DataLogging
<b>1530-0001</b>	CO <sub>2</sub> (0-5%), Diffusion
<b>1540-0002</b>	CO <sub>2</sub> (0-20%), Pump

## IEQ Chek™ Accessories & Replacement Parts

<b>1509-0001</b>	IEQ Chek™ DataLogging Option (Includes 2GB flash card, cable, software & SD card reader)
<b>1509-0002</b>	Rugged Transport Case for IEQ Chek™
<b>1509-0003</b>	10" probe w/30" of sample hose for IEQ Chek™
<b>1509-0005</b>	IEQ Chek™ Externally-mounted, NiMH Battery Pack (required when CO <sub>2</sub> / TVOC sensors are installed in the same instrument)
<b>1509-0008</b>	IEQ Chek™ Replacement NiMH Batteries (pkg. of 3)

Distributed By:



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