Critical Environment Technologies™

DATASHEET

YESAIR 8-Channel IAQ Monitor

INDOOR AIR QUALITY MONITORS



The YESAIR is a battery powered, portable air quality detection and data logging instrument designed for intermittent or continuous indoor air quality monitoring.

It is available in two models (Pump or Diffusion). Each can be configured as a multi-channel operation, with a selection of more than 30 different plug and play gas sensors, including a particulate sensor and an optional huge capacity data logging SD memory card. Both models come with one temperature sensor, one relative humidity (RH) sensor, the capacity for 5 internal gas sensors consisting of a maximum of three electrochemical toxic gas or oxygen sensors plus two high current draw sensors such as an infrared, PID, catalytic or particulate sensor.

Sensor readings, battery level and data logging status can be viewed live on the multi-line, backlit, LCD display. The optional YES Viewer Logger package offers a 2 GB SD memory card with card reader, a USB cable and YES Viewer software. The card reader can be used to store or transfer data. Alternatively, data can be downloaded to a computer using the mini USB connection. The YES Viewer software allows users to analyze and graph data.

An optional sampling probe is available with the Pump model. The probe has a 10 inch wand and 30 inches of tubing that fits onto the nozzle and allows you to reach into areas that are difficult to access.

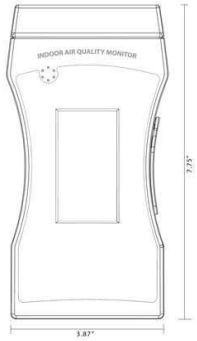
KEY FEATURES

» Capacity for 1 temperature sensor, 1 RH sensor, 5 internal gas sensors and 1 particulate sensor
» More than 30 plug & play sensors available to choose from, including electrochemical, catalytic, infrared, PID, particulate
» Multi-function, easy to use menu
» Light weight, contoured & comfortable to hold
» LCD displays readings for all sensors, battery level and logging status
» Sampling with an internal sample draw pump or by diffusion
» High capacity data logging with 2GB SD memory card
» Data logging software for collecting, analyzing and graphing data
» RoHS compliant circuit boards
» CE certified

APPLICATIONS

» Residential Buildings
» Commercial Buildings
» Schools
» Retirement Homes
» Sports Facilities
» Hospitals
» Airports»
» Research Facilities
» ... and many more where indoor air quality is a concern

TECHNICAL DRAWING



shown without the particulate sensor or antenna

TECHNICAL SPECIFICATIONS

MECHANICAL	
Enclosure	ABS / Polycarbonate, UL94 rated
Weight	567 g (20 oz) without particulate sensor 655 g (23 oz) with particulate sensor
Size	without particulate sensor: 19 x 7.8 x 9.9 cm / 7.8 x 3.1 x 3.9 in with particulate sensor: 25.4 x 12.7 x 8.9 cm / 10 x 5 x 3.5 in
Case (included)	Hard plastic storage/carrying case with foam lining

ELECTRICAL	
Power	- Standard (included): 3x rechargable 3.6V NiMH batteries with plug-in battery charger / wall adapter (100 - 240 V, 50 - 60 Hz) - Optional: Alkaline AA batteries x 3 - Optional: External Battery Pack
Battery Life	Standard rechargeable: up to 8 hours continuous use
Sampling of Gas	- Pump Model: Internal sample pump automatically draws in sample of target gas environment - Diffusion Model: Sample air is diffused naturally over the gas sensors
Memory	> 1 million data points data logging to SD flash card (optional)
Calibration	Automated through keypad

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TECHNICAL SPECIFICATIONS

Information Recording	12 bit, multi-channel, user configurable with 2GB SD memory card slot Optional YES Logger package with 2GB SD memory card, card reader, USB cable and YES Viewer Software
Communication	Miniature USB port for changing settings and configuring logging functions Auxiliary port for particulate sensor
Audible	Internal 80 dB @ 4 ft / 1.2 m. One set point adjustment. Audible can be switched off through menu.

ENVIRONMENTAL (sensor dependant)

Operating Temperature	5°C to 50°C / 41°F to 122°F
Humidity	0 - 99% RH non-condensing

CERTIFICATION

CE	Safety Standards: I.S. EN61010-1:2001(Ed.2) Emissions Standards: EN 50270:2006 Immunity Standards: EN 50270:2006

PRODUCT CODES

YES-AIR	Pump Model: Temperature & RH sensor, internal sample draw pump, rechargeable batteries (3 x AA NiMH) and battery charger, capacity for 5 internal gas sensors plus 1 particulate sensor
YES-AIR-D	Diffusion Model: Temperature & RH sensor, diffuser cap, rechargeable batteries (3 x AA NiMH) and battery charger, capacity for 5 internal gas sensors plus 1 particulate sensor

SENSOR OPTIONS

PNP-H	Electrochemical Ammonia (NH_3) 0 - 50 ppm
PNP-R	Electrochemical Arsine (AsH_3) 0 - 2 ppm
PNP-A+	Infrared Carbon dioxide (CO_2) 0 - 5,000 ppm
PNP-A1	Infrared Carbon dioxide (CO_2) 0 - 10,000 ppm
PNP-A2	Infrared Carbon dioxide (CO_2) 0 - 20% vol
PNP-B	Infrared Carbon dioxide (CO_2) 0 - 5% volume
PNP-B1	Infrared Carbon dioxide (CO_2) 0 - 100% volume
PNP-C	Carbon monoxide (CO) electrochemical, 0 - 50 ppm
PNP-C1	Electrochemical carbon monoxide (CO) smart sensor (0 - 50 ppm range), H_2 compensated for reduced response in H_2 rich environments with reading possibly showing as high as 60 ppm with 500 ppm H_2 in monitoring environment
PNP-I	Electrochemical Chlorine (Cl_2) 0 - 5 ppm
PNP-J	Electrochemical Chlorine dioxide (ClO_2) 0 - 1 ppm

PRODUCT CODES

PNP-X	Catalytic combustible gas 0 - 100% LEL
PNP-E1	Ethylene (C_2H_4), 0 - 200 ppm
PNP-E2	Electrochemical Ethylene oxide (C_2H_4O) 0 - 20 ppm
PNP-S	Electrochemical Fluorine (F_2) 0 - 2 ppm
PNP-Q	Electrochemical Formaldehyde (CH_2O) 0 - 5 ppm
PNP-K	Electrochemical Hydrogen (H_2) 0 - 1,000 ppm
PNP-M	Electrochemical Hydrogen chloride (HCl) 0 - 30 ppm
PNP-N	Electrochemical Hydrogen cyanide (HCN) 0 - 30 ppm
PNP-O	Electrochemical Hydrogen fluoride (HF) 0 - 10 ppm
PNP-L	Electrochemical Hydrogen sulphide (H_2S) 0 - 50 ppm
PNP-B+	Infrared Methane (CH_4) 0 - 5% volume
PNP-E	Electrochemical Nitric oxide (NO) 0 - 100 ppm
PNP-D	Electrochemical Nitrogen dioxide (NO_2) 0 - 5 ppm
PNP-F	Electrochemical Oxygen (O_2) 25% vol
PNP-G	Electrochemical Ozone (O_3) 0 - 1 ppm
PNP-G1	Electrochemical Ozone (O_3) 0 - 5 ppm lowest alarm setpoint is 1 ppm
PNP-V	Electrochemical Phosphine (PH_3) 0 - 1 ppm
PNP-W	Electrochemical Silane (SiH_4) 0 - 50 ppm
PNP-P	Electrochemical Sulphur dioxide (SO_2) 0 - 20 ppm
PNP-Y+	TVOCs (PID), 0 - 300 ppm
PNP-Z+	TVOCs (PID), 0 - 30 ppm
CET-PM2.5	Particulates 2.5 µg/m3
CET-PM10	Particulates 10 µg/m3

ACCESSORIES

CET-8000-CKFT	Standard yellow gas flow tubing for calibration, 2 ft, 3/16" ID / 5/16" OD, priced per foot
CET-8000-CTFT	Teflon lined gas flow tubing for calibrating sticky gases, special non-absorbent, 2 ft, 3/16" ID / 5/16" OD, priced per foot
REG-ADAPTER	Brass fitting that threads onto regulator to accommodate 15 and 17 litre cylinders
YES-AIR LGR PKG	YES Logger package with 2 GB memory card, card reader, USB cable, YES Viewer Software
YES-HHPROBE-10	Handheld 10" probe with 30" of sample hose
YES-SFTWR	YES Viewer data logging software (USB drive)

Do you have a YES DUST? Upgrade your YESAIR to the particulate sensor that replaces the YESDUST. Units must be returned to the factory for retrofitting.
p/n: **CET-DUST-RETRO**

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