Critical Environment Technologies™

DATASHEET

YES Plus LGA 15-Channel IAQ Monitor



YES Plus LGA is a multi-gas air quality monitoring and information recording instrument that simultaneously measures and records up to fifteen sensors. With more than 30 different plug and play sensors to select from, users can accurately monitor more within a single, easy to carry instrument.

Featuring a fifteen channel sensor capacity including RH and temperature, YES Plus LGA can handle up to 12 additional plug & play sensors consisting of a maximum of eight electrochemical toxic gas or oxygen sensors, four high current draw sensors such as an infrared, PID or catalytic.

The large, backlit, multi-line scrolling LCD display indicates the sensor types installed and measured values for each gas, battery status and more. The system utilizes a long life rechargeable NiMH battery pack providing more than 24-hours of run time, depending on sensor array installed. The user can also set one alarm level for each gas to activate the internal audible alarm. The system is housed in a rugged ABS enclosure with swivel handle to act as a stand support or for carrying the instrument.

An air sample from the target environment is delivered to the sensors through "active sampling" by the internal sample draw pump. More than a million data points can be logged and stored on a built-in 2 GB SD memory card for convenience.

The optional YES Logger package consists of a 2 GB SD memory card and card reader, USB cable and YES Viewer Software. The card reader stores the data which can be transferred. Alternatively, data can be downloaded through the device using a standard USB connection. Our proprietary YES Viewer Software will allow users to analyze and graph the data.

INDOOR AIR QUALITY MONITORS

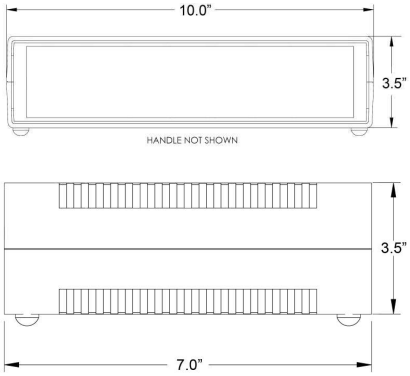
KEY FEATURES

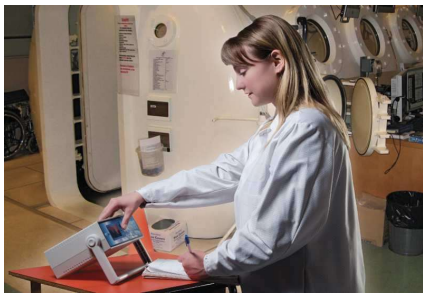
» 15 sensor capacity
» > 30 plug & play sensor choices
» Extensive, easy to use menu system
» Rugged ABS enclosure with swivel handle acts as stand support
» Internal sample pump with inline filter
» Large, backlit, multi-line, LCD display
» Data logging to SD memory card
» Menu control positive sampling
» RoHS compliant circuit boards

APPLICATIONS

» Residential Buildings
» Commercial Buildings
» Hospitals
» Laboratories
» Research Facilities
» Parking Garages
» ... and many more

TECHNICAL DRAWING







YES Plus LGA is housed in a rugged ABS enclosure with swivel handle to act as a stand support or for carrying the instrument.

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YES Plus–LGA 15–Channel IAQ Monitor

TECHNICAL SPECIFICATIONS

MECHANICAL	
Enclosure	Rugged ABS (UL94-HB rated) c/w multi-position, adjustable aluminum carrying hangle/stand
Weight	1.7 kg (3.6 lb)
Size	10.0" x 3.5" x 7.0" (254 mm x 89 mm x 178 mm)

ELECTRICAL	
Power	Rechargeable NiMH battery pack: 18 - 24 hours of continuous operation time (dependent upon the sensor array installed) c/w plug-in battery charger / 12 VDC wall adapter (100 - 240 VAC; 50 - 60 Hz)
Circuit	Powerful microprocessor, user configurable
Sampling	Internal, automatic sample pump for "active" sampling of target environment

ENVIRONMENTAL (sensor dependant)	
Operating Temperature	5°C to 50°C (41°F to 122°F)
Humidity	0 - 99% RH non-condensing

CERTIFICATION	
CE	Pending

PRODUCT CODES

YES-PLUS-LGA	Temperature and RH sensors, internal pump, inline filter, rechargeable battery, internal data logging, capacity for 12 gas sensors

SENSOR OPTIONS	
PNP-H	Ammonia (NH_3) electrochemical, 0 - 50 ppm
PNP-R	Arsine (AsH_3) electrochemical, 0 - 2 ppm
PNP-A+	Carbon dioxide (CO_2) infrared, 0 - 5,000 ppm
PNP-A1	Carbon dioxide (CO_2) infrared, 0 - 10,000 ppm
PNP-A2	Carbon dioxide (CO_2) infrared, 0 - 20% volume
PNP-B	Carbon dioxide (CO_2) infrared, 0 - 5% volume
PNP-B1	Carbon dioxide (CO_2) infrared, 0 - 100% volume
PNP-C	Carbon monoxide (CO) electrochemical, 0 - 50 ppm
PNP-C1	Carbon monoxide (CO) electrochemical, 0 - 50 ppm (H_2 compensated for use in H_2 background)
PNP-I	Chlorine (Cl_2) electrochemical, 0 - 5 ppm
PNP-J	Chlorine dioxide (ClO_2), electrochemical, 0 - 1 ppm
PNP-X	Combustibles (catalytic), 0 - 100% LEL
PNP-E1	Ethylene (C_2H_4), 0 - 200 ppm

PRODUCT CODES

PNP-E2	Ethylene oxide (C_2H_4O), 0 - 20 ppm
PNP-S	Fluorine (F_2) electrochemical, 0 - 2 ppm
PNP-Q	Formaldehyde (CH_2O) electrochemical, 0 - 5 ppm
PNP-K	Hydrogen (H_2) electrochemical, 0 - 1,000 ppm
PNP-M	Hydrogen chloride (HCl) electrochemical, 0 - 30 ppm
PNP-N	Hydrogen cyanide (HCN) electrochemical, 0 - 100 ppm
PNP-O	Hydrogen fluoride (HF) electrochemical, 0 - 10 ppm
PNP-L	Hydrogen sulphide (H_2S) electrochemical, 0 - 50 ppm
PNP-B+	Methane (CH_4) infrared, 0 - 5% volume
PNP-E	Nitric oxide (NO) electrochemical, 0 - 100 ppm
PNP-D	Nitrogen dioxide (NO_2) electrochemical, 0 - 5 ppm
PNP-F	Oxygen (O_2) electrochemical, 0 - 25% volume
PNP-G	Ozone (O_3) electrochemical, 0 - 1 ppm
PNP-G1	Electrochemical Ozone (O_3) 0 - 5 ppm lowest alarm setpoint is 1 ppm
PNP-V	Phosphine (PH_3) electrochemical, 0 - 1 ppm
PNP-W	Silane (SiH_4) electrochemical, 0 - 50 ppm
PNP-P	Sulphur dioxide (SO_2) electrochemical, 0 - 20 ppm
PNP-Y+	TVOCs (PID), 0 - 300 ppm
PNP-Z+	TVOCs (PID), 0 - 30 ppm

ACCESSORIES	
718	Deluxe hard shell carrying case for YES Plus LGA
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-ADAPT-ER	Brass fitting that threads onto regulator to accommodate 15 and 17 litre cylinders
REG-07DF-CR2	Demand flow regulator for calibrating YESAIR pump model and YES Plus LGA
YES-AIR LGR PKG	YES Logger package with 2 GB memory card, card reader, USB cable, YES Viewer Software
LGA-HH-PROBE-30	Handheld 10" probe with 30" of sample hose
YES-SFTWR	YES Viewer data logging software (USB drive)

NOTE: In addition to the temperature and RH sensors, the YES Plus LGA can handle up to 12 additional sensors consisting of a maximum of eight electrochemical toxic gas or oxygen sensors, four high current draw sensors such as an infrared PID or catalytic.

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