

# IAQ Instruments - GAS DETECTION DATASHEET

## YES IMS 10-Channel IAQ Monitor



YES IMS is a self-contained, indoor air quality (IAQ) "Intelligent Monitoring System" with ten channel sensor capacity including relative humidity (RH) sensor, temperature sensor, up to seven additional gas sensors, and a remote gas sensor.

Available in either a wall mount or portable desktop configuration. The wall mount version can be wired with 24 VAC or DC, and has one relay output for alarm signaling. The desktop version includes a 6 V power adapter.

A wide range of sensors are available to choose from, including a particulate, electrochemical, semi-conductor (solid state), infrared, and PID.

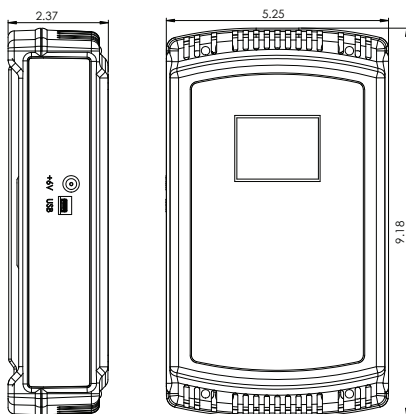
YES IMS has 2 GB of integrated logging memory that will store over a years worth of readings when logging once per minute. Data is logged 24/7 and saved in Microsoft® Excel friendly CSV format and can be extracted from the unit with a standard USB connection. Users can then analyze and graph data using the optional data logging software.

A common IAQ package consists of temperature, RH, CO, CO<sub>2</sub>, particulates, and TVOCs.

### APPLICATIONS

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

### TECHNICAL DRAWING



YES-IMS-D model  
(picture to the left).

### KEY FEATURES

- » 10 sensor capacity
- » Wide range of sensors available to choose from, including electrochemical, semi-conductor, infrared & PID
- » Easy configuration via PC
- » Light weight desktop or wall mount
- » Standard LCD display
- » High capacity data logging on internal 2GB
- » Optional data logging software available
- » RoHS compliant circuit boards

### NOTES:

<sup>1</sup> All units are supplied with temperature and relative humidity sensors, full color LCD display, audible alarm, one dry contact relay rated 2 amps @ 30 V SPDT & USB programming port.

<sup>2</sup> Must specify wall mount or desktop versions.

- Wall units are to be hard wired.
- Desk units come with an international power adapter.

<sup>3</sup> Please consult factory for availability & price of sensors not listed above.

<sup>4</sup> Ethernet, Wi-Fi or BACnet® module options will be available later this year.

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### TECHNICAL SPECIFICATIONS

#### GAS TYPE

Ammonia (NH <sub>3</sub> )
Carbon Dioxide (CO <sub>2</sub> )
Carbon Monoxide (CO)
Chlorine (Cl <sub>2</sub> )
Combustible Gas (semi-conductor) <i>Hydrogen (H<sub>2</sub>), Methane (CH<sub>4</sub>), Propane (C<sub>3</sub>H<sub>8</sub>), etc.</i>
Ethylene (C <sub>2</sub> H <sub>4</sub> )
Ethylene Oxide (C <sub>2</sub> H <sub>4</sub> O)
Formaldehyde (CH <sub>2</sub> O)
Nitrogen Dioxide (NO <sub>2</sub> )
Oxygen (O <sub>2</sub> )
Ozone (O <sub>3</sub> )
Particulates
Refrigerants (semi-conductor) <i>R22, R134A, R402A, R404A, R407C, R410A, R422A, R422D, R507</i>
Sulphur Dioxide (SO <sub>2</sub> )
TVOCs (semi-conductor & PID)

#### MECHANICAL

Enclosure	General Purpose PVC / ABS
Weight	<i>tbd</i>
Size	9.2" x 5.3" x 2.4" (233 mm x 133 mm x 60 mm)

#### ELECTRICAL

Power <sup>1</sup>	Desktop Version 6 V wall adapter Wall Mount Version 24 VAC or DC
Sampling	Diffusion
Memory	2 GB
Calibration	Performed with calibration hood & PC interface
Communication <sup>2</sup>	USB
Audible	80 dB

#### ENVIRONMENTAL (sensor dependent)

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

#### CERTIFICATION

CE	Pending
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### PRODUCT CODES

YES-IMS - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

Temperature  
& RH<sup>1</sup>

Type<sup>2</sup>:

- D** Desk Unit
- W** Wall Unit

Sensor: *Electrochemical*

- 0** None
- 1** CO (0 - 200 ppm)

Sensor: *Infrared*

- 0** None
- 2** CO<sub>2</sub> (0 - 5,000 ppm)

Sensor:

- 0** None
- 3** Particulate (1 - 10 microns)

Sensor: *Semi-Conductor*

- 0** None
- 4** TVOC (0 - 500 ppm)
- 5** Combustible (0 - 50% LEL)
- 6** Refrigerant (0 - 2,000 ppm)

Sensor: *PID*

- 0** None
- 7** TVOC (0 - 30 ppm)
- 8** TVOC (0 - 300 ppm)

Sensor: *Electrochemical*

- 00** None
- 10** NO<sub>2</sub> (0 - 10 ppm)
- 11** H<sub>2</sub>S (0 - 50 ppm)
- 12** O<sub>2</sub> (0 - 25% volume)
- 13** O<sub>3</sub> (0 - 1 ppm)
- 14** NH<sub>3</sub> (0 - 50 ppm)
- 15** SO<sub>2</sub> (0 - 20 ppm)
- 16** CH<sub>2</sub>O (0 - 10 ppm)
- 17** C<sub>2</sub>H<sub>4</sub> (0 - 500 ppm)
- 18** C<sub>2</sub>H<sub>6</sub>O (0 - 20 ppm)
- 19** Cl<sub>2</sub> (0 - 5 ppm)
- 20** Non listed electrochemical sensor<sup>3</sup>

Module<sup>4</sup>:

- 0** No module