

IAQ Instruments - GAS DETECTION DATASHEET

YES IMS 9-Channel IAQ Monitoring System



YES IMS is a self-contained, Intelligent Monitoring System (IMS) that is easy to use to monitor and record indoor air quality (IAQ) measurements.

It has a nine channel sensor capacity, two dedicated to one internal relative humidity (RH) and one temperature sensor and the remaining configurable up to seven gas sensors.

Options include a fixed wall mount model or a desktop model with a wide range of sensors to choose from, including particulate, electrochemical, solid state, infrared and TVOCs (solid state and PID). The fixed wall mount model can be permanently wired with 24 VAC or DC and the portable desktop version comes with a 12 VDC wall adapter. Both models allow for around the clock continuous monitoring and data logging.

YES IMS has an internal logging memory that will store over two months worth of readings when logging once per minute. Data is saved in a Microsoft® Excel friendly CSV format and can be extracted from the unit with a standard USB connection or Wi-Fi interface. Users can analyze and graph data using CETCI's proprietary data logging software.

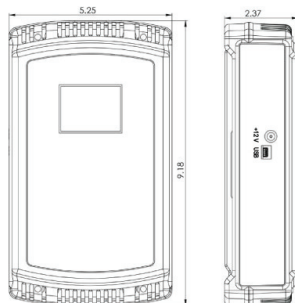
KEY FEATURES

- » 9 sensor capacity
- » Standard LCD display
- » Wide range of sensors available to choose from, including particulate, electrochemical, solid state, infrared and TVOCs
- » Light weight desktop model or fixed wall mount model
- » High capacity internal data logging
- » Proprietary IMS Viewer data logging software included
- » Optional Wi-Fi module
- » RoHS compliant circuit boards

APPLICATIONS

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

TECHNICAL DRAWING



TECHNICAL SPECIFICATIONS

GAS TYPE

Electrochemical
Ammonia (NH₃), Carbon Monoxide (CO), Chlorine (Cl₂), Ethylene (C₂H₄), Ethylene Oxide (C₂H₄O), Formaldehyde (CH₂O), Nitrogen Dioxide (NO₂), Oxygen (O₂), Ozone (O₃), Sulphur Dioxide (SO₂)

Infrared

Carbon Dioxide (CO₂)

Combustible Gas (solid state)

Hydrogen (H₂), Methane (CH₄), Propane (C₃H₈), etc.

Particulates (convection)

TVOCs (solid state & PID)

MECHANICAL

Enclosure	General Purpose PVC / ABS
Weight	600 g (1.4 lb)
Size	9.2" x 5.3" x 2.4" (233 mm x 133 mm x 60 mm)
Case (included)	Hard plastic storage/carrying case with foam lining



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TECHNICAL SPECIFICATIONS continued

ELECTRICAL

Power

Desktop Model	Plug-in, 12 VDC, Class III, 2 A DC max. wall adapter
Wall Mount Model	24 VAC or DC, 500 mA max. capacity

Sampling

Diffusion

Memory

8 MB

Calibration

Using the PC application software available
only to authorized distributors.

Information Recording

User configurable through PC application
software.

Circuit

Microprocessor

Communication

Miniature USB port

USER INTERFACE

Display	Full colour LCD display
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ENVIRONMENTAL (sensor dependant)

Operating Temperature	5°C to 50°C (41°F to 122°F)
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Operating Humidity	5 - 95% RH non-condensing
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Storage Temperature	-20°C to 60°C (-4°F to 140°F)
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Storage Humidity	0-99% RH non-condensing
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CERTIFICATION

CE	Pending
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PRODUCT CODES

Wall mount model c/w temperature & RH sensors plus capacity for 7 gas sensors	YES-IMS-W
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Desktop model c/w temperature & RH sensors plus capacity for 7 gas sensors	YES-IMS-D
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SENSOR OPTIONS

Ammonia (NH ₃) electrochemical (0 - 50 ppm)	SES-3E-100
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Carbon dioxide (CO ₂) infrared (0 - 5,000 ppm)	IMS-CO2 IR
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Carbon monoxide (CO) electrochemical (0 - 200 ppm)	SEF-TCO
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Chlorine (Cl ₂) electrochemical (0 - 5 ppm)	SEC-4CL-CL2
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Combustible gas (CH ₄ , H ₂ , C ₂ H ₂) solid state (0 - 50% LEL)	SEF-8000-CB
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Dust / particulate convection (1 - 10 micro meters)	IMS-PARTICULATE
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Ethylene (C ₂ H ₄) electrochemical (0 - 500 ppm)	SEM-4C2H4
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Ethylene oxide (C ₂ H ₄ O) electrochemical (0 - 20 ppm)	SEC-4ETO-C2H4O
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Formaldehyde (CH ₂ O) electrochemical (0 - 10 ppm)	SEM-CH2O/M-10
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Hydrogen sulphide (H ₂ S) electrochemical (0 - 50 ppm)	SEC-4HS-H2S
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Nitrogen dioxide (NO ₂) electrochemical (0 - 10 ppm)	SEC-4ND-NO2
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Oxygen (O ₂) electrochemical (0 - 25% volume)	O2-A3 OXYGEN
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Ozone (O ₃) electrochemical (0 - 1 ppm)	SES-4000-O3
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Sulphur dioxide (SO ₂) electrochemical (0 - 20 ppm)	SEA-4S02
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TVOCs PID (0 - 30 ppm)	PID-AH
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TVOCs PID (0 - 300 ppm)	PID-A1
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TVOCs solid state (0 - 50 ppm)	SEF-8000-COF
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COMMUNICATION OPTIONS

Wi-Fi Option	IMS-WIFI
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OPTIONAL ACCESSORIES

Hard shell, dust/water tight storage/carrying case with foam lining	6010.20
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