



**The solution when  
portable gas detection  
is required**

# Satellite Portable Gas Detector



## Applications:

- Emergency response
- Localising gas leaks
- Equipment maintenance
- Gas bottle changes
- Laboratories
- Photovoltaics

## Advantages:

- Dual-mode detection either extractive or in-situ
- Dual-level concentration alarms
- User adjustable alarm levels and alarm relay actions
- Audible and visual alarm indicators
- "Plug and Play" interchangeable intelligent sensor cell
- LonWorks® or 4-20 mA interface
- Sensor diagnostics

## Configurations:

- |                       |           |
|-----------------------|-----------|
| • FTT/R (115 VAC)     | 9751-0000 |
| • 4-20mA/R (115 VAC)  | 9751-0010 |
| • FTT/R (230 VAC)     | 9751-1000 |
| • 4-20 mA/R (230 VAC) | 9751-1010 |

**The Honeywell Analytics Satellite Portable Gas Detector is a versatile instrument designed to detect and measure a wide range of hazardous gases. It is ideal for emergency response use as well as monitoring in laboratories, cylinder receiving areas and other locations where portable or temporary gas detection is needed.**

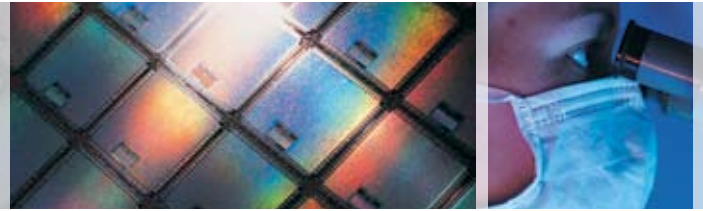
This instrument is designed for detection of toxic and corrosive gases and comprises of 2 essential components, the sampling module with integral pump for sample transportation and the gas detection module for monitoring directly with a sensor extension cable. Diagnostics include monitoring of the sensor cell as well as flow rate. For optimum versatility and flexibility, the Satellite Portable Gas Detector uses "plug and play" sensor cells which are easily changeable in the field.

The Satellite Portable Gas Detector features user-adjustable dual-level concentration alarms, LCD concentration display and both audible and visual alarm indicators. The instrument also incorporates 3 alarm relays that can be used to automatically activate external devices in the event of a gas concentration or instrument alarm condition being detected. In addition to the alarm relays, the instrument can be purchased either with a LonWorks® or 4-20 mA interface.

Continuous monitoring, fast response, ability to silence the audible alarm, battery check and the use of our intelligent electrochemical sensor cells are further features and benefits.



# Technical Summary



## Performance Specifications

<b>Alarm settings</b>	Dual-level
<b>Battery life</b>	8 h
<b>Operation temperature</b>	-20°C to +40°C (-4°F to +104°F)
<b>Relative humidity</b>	10 to 95% r.h. (non-condensing)
<b>Pressure</b>	700 hPa to 1300 hPa
<b>Sample tubing</b>	OD 1/4 in ID 3/16 in
<b>Response time</b>	< 30 sec (10 m tubing length)
<b>Operational cell life</b>	> 1 year (under normal conditions)
<b>Sensor service interval</b>	6 months
<b>Graphic display</b>	122 x 32 dots with back light
<b>LED indication</b>	Alarm, fault, power status
<b>Acoustical alarm</b>	Continuous/ alternating buzzer signal

## Facilities Requirements

<b>Electrical supply</b>	12V rechargeable lead acid battery
<b>Network interface</b>	(PN 9751-0000 or PN 9751-1000)
<b>Network</b>	Standard LonTalk® Protocol
<b>Data transmission</b>	78 kBit per second
<b>Wiring topologies</b>	Free, (e.g. bus, star, loop or mixed)
<b>Wiring</b>	Shielded (tinned copper braid) 4 wire cable (2 x 2 x 1,0mm / 17 AWG)
<b>Alarm relay outputs</b>	
<b>Contacts</b>	3 x SPST
<b>Max. ratings</b>	250 VAC / 8 A
<b>Analogue interface</b>	(PN 9751-0010 or PN 9751-1010)
<b>Interface</b>	4-20 mA
<b>Fault range</b>	0 ... 2 mA
<b>Warning mode</b>	2,8 ... 4 mA @ 0,1 Hz
<b>Maintenance mode</b>	2,4 ... 4 mA @ 1 Hz
<b>Wiring</b>	Shielded (tinned copper braid) 3 wire cable (3 x 1,0mm / 17 AWG)
<b>Overall Dimensions (L x W x D)</b>	89 x 228 x 165mm 3.5 x 9.0 x 6.5 in
<b>Weight</b>	1,8 kg (4lbs)

## Detectable Gases

Ammonia (NH <sub>3</sub> )
Arsine (AsH <sub>3</sub> )
Boron Trichloride (BCl <sub>3</sub> )
Bromine (Br <sub>2</sub> )
Carbon Monoxide (CO <sub>2</sub> )
Chlorine (Cl <sub>2</sub> )
Chlorine Dioxide (ClO <sub>2</sub> )
Chlorine Trifluoride (ClF <sub>3</sub> )
Diborane (B <sub>2</sub> H <sub>6</sub> )
Dichlorosilane (SiH <sub>2</sub> Cl <sub>2</sub> )
Disilane (Si <sub>2</sub> H <sub>6</sub> )
Fluorine (F <sub>2</sub> )
Germane (GeH <sub>4</sub> )
Hexamethyldisilazane (HMDS)
Hydrazine (N <sub>2</sub> H <sub>4</sub> )
Hydrogen (H <sub>2</sub> )
Hydrogen Bromide (HBr)
Hydrogen Chloride (HCl)
Hydrogen Cyanide (HCN)
Hydrogen Fluoride (HF)
Hydrogen Selenide (H <sub>2</sub> Se)
Hydrogen Sulphide (H <sub>2</sub> S)
Nitrogen Oxide (NO)
Nitrogen Dioxide (NO <sub>2</sub> )
Ozone (O <sub>3</sub> )
Oxygen Deficiency (O <sub>2</sub> )
Phosphorous Oxychloride (POCl <sub>3</sub> )
Phosgene (COCl <sub>2</sub> )
Phosphine (PH <sub>3</sub> )
Silicon Tetrachloride (SiCl <sub>4</sub> )
Silicon Tetrafluoride (SiF <sub>4</sub> )
Silane (SiH <sub>4</sub> )
Sulphur Dioxide (SO <sub>2</sub> )
Tetraethylorthosilicate (TEOS)
Trichlorosilane (SiHCl <sub>3</sub> )
Trimethylborate (TMB)
Trimethylphosphite (TMP)
Tungsten Hexafluoride (WF <sub>6</sub> )

## Outputs and Communications

Life Safety Network – LonWorks®
Facility Computer – DVS Software
Relay Output Controller
iDisplay
FMS 8700 and FMS 8710 Controllers
PLC/SCADA Communication

## Options and Accessories

Carrying Case	P/N 9751-0200
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## Endorsements and Accreditations



# Our Product Range



## Fixed Gas Monitoring

Honeywell Analytics offers a wide range of fixed gas detection solutions for a diverse array of industries and applications including: Commercial properties, industrial applications, semiconductor manufacturers, energy plants and petrochemical sites.

- » Detection of flammable, oxygen and toxic gases (including exotics)
- » Innovative use of 4 core sensing technologies – paper tape, electrochemical cell, catalytic bead and infrared
- » Capability to detect down to Parts Per Billion (ppb) or Percent by Volume (%v/v)
- » Cost effective regulatory compliance solutions

## Portable Gas Monitoring

When it comes to personal protection from gas hazards, Honeywell Analytics has a wide range of reliable solutions ideally suited for use in confined or enclosed spaces.

These include:

- » Detection of flammable, oxygen and toxic gases
- » Single gas personal monitors – worn by the individual
- » Multi-gas portable gas monitors – used for confined space entry and regulatory compliance
- » Multi-gas transportable monitors – used for temporary protection of area during site construction and maintenance activities

## Technical Services

At Honeywell Analytics, we believe in the value of great service and customer care. Our key commitment is providing complete and total customer satisfaction. Here are just a few of the services we can offer:

- » Full technical support
- » Expert team on hand to answer questions and queries
- » Fully equipped workshops to ensure quick turnaround on repairs
- » Comprehensive service engineer network
- » Training on product use and maintenance
- » Mobile calibration service
- » Customised programmes of preventative/corrective maintenance
- » Extended warranties on products

### Find out more

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