



Point-of-Use gas detection in a complete life safety solution



Applications:

Provides gas detection for:

- Gas cabinets
- Valve manifold box
- Equipment enclosure
- OEM equipment

Features:

- Easy understandable alarm indication
- Fast, reliable, specific gas detection
- "Point-Of-Use installation" design
- No sensor extension cable necessary
- Smallest overall dimensions
- Continuous real-time monitoring
- Interchangeable intelligent sensor cell
- No dynamic gas calibration required
- Generic gas detector electronics
- Cost efficient
- No moving parts to wear down or replace
- Directly compatible with LonWorks®
- Sensor diagnostics

Configurations:

- Comet digital version LonWorks®
- Comet analogue version 4 – 20 mA

The Honeywell Analytics' Comet is an intelligent gas detection instrument, which utilises a unique electrochemical sensor to detect toxic and corrosive gas. The Comet is especially designed for a simple "Point of use" installation at the potential source of gas release. The design, with its duct mounting adapter, allows easy installation direct at the exhaust ducting of gas cabinets, valve manifold boxes and equipment enclosures. Installation costs are significantly reduced.

Alarm, maintenance and fault information are clearly indicated by LEDs. The Comet is an extremely cost efficient gas detection transmitter.

Based upon the market's smallest and most reliable electrochemical sensor, the Comet offers flexibility, simplicity and application ease. The Comet can be purchased in either an analogue or digital configuration, allowing it to interface with new and existing facility control technologies.

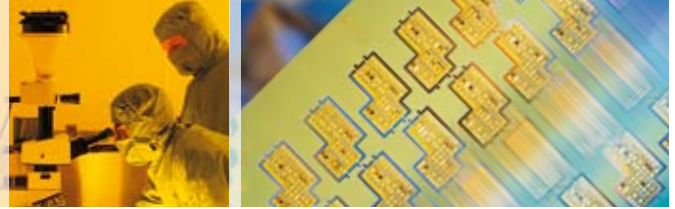
The digital Comet utilises LonWorks® technology. Life safety systems built on a LonWorks® network platform allow users to leverage the cost efficiencies of distributed controls, while maintaining the integrity and reliability necessary for code compliant safety applications.

Each digital Comet instrument bears a unique address for use on a LonWorks® network. This feature allows it to participate in a community of other intelligent LonWorks® devices, which when considered together, comprise a life safety system network. Gas concentration, alarm, maintenance and fault information are distributed onto the life safety LonWorks® network for use by other field devices in order to initiate life safety shut downs or data display.



Duct mounting adapters with different radiuses (optional)

Technical Summary



Performance Specifications

Alarm settings	Dual level
Power consumption	max. 0,5 W (depending on version)
Operation temperature	-20°C to +40°C -4°F to +104°F
Relative humidity	20 to 90% r.h. (non-condensing)
Operational cell life	> 1 year (under normal conditions)
Calibration intervals	6 months (depending on cell)
Applicable standards	RFI / EMC: EN 55022 EN 61000-6-2
LED indication	Alarm, fault, maintenance

Facilities Requirements

Electrical supply	12 to 24 VDC
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Digital Comet

Network	Standard LonTalk® Protocol
Data transmission	78 Kb per second
Wiring topologies	Free, (e.g. bus, star, loop or mixed)
Wiring	Shielded (tinned copper braid) 4 wire cable (2 x 2 x 1,0mm ² / 17 AWG) Approx. 2m delivered with instrument

Analogue Comet

Interface	4 – 20 mA
Fault	0 – 2,0 mA
Wiring	Shielded (tinned copper braid) 3 wire cable (3 x 1,0 mm ² / 17 AWG) Approx. 2m delivered with instrument
Enclosure construction	Metalised ABS
Protection class	IP 52
Overall dimensions LxWxD	98 x 65 x 56mm (5.9 x 2.6 x 2.2in)
Weight	approx. 300g (approx. 10.6oz)

Options and Accessories

Life Safety Network – LonWorks®
Facility Computer – Web DVS Software
Relay Output Controller
iDisplay
FMS 8700 and FMS 8710 controllers
PLC/SCADA Communication
In-situ duct mounting kits

Detectable Gases

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

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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