CM4 Toxic Gas Monitor

Honeywell





CM4 toxic gas monitor, interference free and low maintenance of ownership solutions for the semiconductor, pharmaceutical and chemical industries

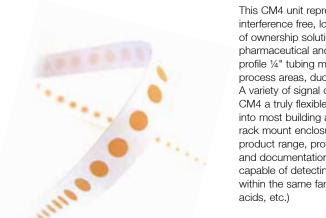
CM4 Toxic Gas Monitor



Features

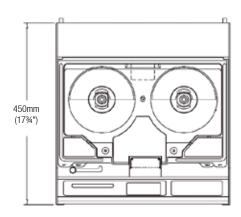
- Continuous Monitoring on 4 Points
 Total surveillance all the time
- Chemcassette® Technology
 Reliable, interference-free method
 provides physical evidence of events
- Analog and Serial Outputs
 Permits easy installation into virtually all annunciation and shutdown systems
- 300' (90m) Sampling Distance Monitors can be positioned conveniently with minimal fab intrusion
- Table, Wall or Rack Mount Versions
 Flexible to meet any requirement
- LonWorks® Interface Available
 Permits peer to peer communication and low cost of installation
- Serial Printer Option
 Permits archiving of all important events and system configurations
- Integral Audio and Visual Alarms
 Easily identifies all events

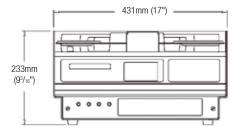
This CM4 unit represents the latest in interference free, low maintenance, low cost of ownership solutions for the semiconductor, pharmaceutical and chemical industries.



This CM4 unit represents the latest in interference free, low maintenance, low cost of ownership solutions for the semiconductor, pharmaceutical and chemical industries. Its low profile ¼" tubing minimises intrusion into process areas, ducts, gas cabinets, etc. A variety of signal outputs are available making CM4 a truly flexible product. It easily installs into most building alarm systems. An optional rack mount enclosure and printer fill out the product range, providing convenient housing and documentation capability. The unit is capable of detecting over 25 gases-some within the same family (hydrides, mineral







Technical Specification





Substance	Response Time to TLV	Range
Amines		
Ammonia II (NH ₃)	10	3-75ppm
Dimethyl Amine (DMA)	30	0.3-30ppm
Tetrakis Dimethly Amino		
Titanium (TDMAT)	30	0.1-7.5ppm
Triethylamine (TEA)	10	0.3-35ppm
Chlorine III (Cl ₂)	20	0.05-5.0ppm
Chlorine II (Cl ₂) Low Level	20 @ 200ppb	7-2000ppb
Chlorine Dioxide (CIO ₂)	50	30-1000ppb
Fluorine (F ₂)	30	0.06-10ppm
Hydrazines		
Dimethyl Hydrazine (UDMH)	240	3-5000ppb
Hydrazine (N ₂ H ₄)	60	0 7-1000ppb
Hydrides		
Arsine (AsH ₃)	10	5-500ppb
Arsine Dry (AsH ₃)	25	5-500ppb
Arsine (AsH ₃) Low Level	11	0 0.3-25ppb
Diborane (B ₂ H ₆)	30	15-1000ppb
Germane (GeH ₄)	240	100-2000ppb
Hydrogen Selenide (H ₂ Se)	35	6-500ppb
Phosphine (PH ₃)	10	5-3000ppb
Silane (SiH₄)	25	0.5-50ppm
Tertiary Butyl Arsine (TBA)	30	12-500ppb
Hydrogen Cyanide (HCN)	15	0.5-50ppm
Hydrogen Sulphide (H ₂ S)	10	0.5-100ppm
Hydrogen Sulphide (H ₂ S) Low Level	30 @ 500ppb	8-2000ppb
Mineral Acids		
Boron Trifluoride (BF ₃) Low Level	80	100-1500ppb
Hydrogen Bromide (HBr)	20	0.3-30ppm
Hydrogen Bromide (HBr) Low Level	60 @500ppb	50-2000ppb
Hydrogen Chloride (HCI)	15	0.5-15ppm
Hydrogen Chloride (HCI) Low Level	20 @ 500ppb	80-8000ppb
Hydrogen Fluoride (HF)	25	0.3-30ppn
Hydrogen lodide (HI)	20	0.1-25ppm
Nitrogen Dioxide (NO ₂)	15	0.3-30ppm
Phosgene (COCI ₂)	15	7-1000ppb

Nitrogen Trifluoride (NF $_{\rm g}$) available, see separate datasheet on CM4-P

Technical Data Specifications		
Detection Technique	Chemcassette Technology	
Gases Available	See chart above	
Monitoring Points	Four	
Sampling Distance	90m (300ft) 1/4" OD x 3/16" ID FEP grade Teflon® tubing only. (Consult your local HA agent for longer distance requirements.)	
Exhaust Tubing	15m (50ft) 1/4" OD x 3/18" ID Polypropylene. Longer distances possible with larger ID exhaust tubing	
Display	20 character vacuum fluorescent status, alarm, and power LEDs	
Keypad	16 key, sealed membrane style	
Local Alarm indication	Audible and visual (LED) per point	
Relay Outputs	Relay contacts (500mA minimum) 2A @ 120VAC, form C contacts. Programmable low and high levels, maintenance, watch dog, energised or de-energised, latching or nonlatching	
Current Loop Outputs (per Point)	4-20mA isolated (optional) (2-4mA range available for fault indicators)	
Serial Output	RS232 serial printer output (optional)	
Serial Communications	RS232, RS422, and RS485 (all optional)	
Additional Protocols supported	LonWorks®, (LonMark® compliant optional) Profibus (via 4-20mA to L2 bus optional) ~ Supported Intellution, FIX 32, Wonderware, InTouch, Cimplicity	
Operating Temperature	10C° to 40°C (50F° to 140°F)	
Shipping Weight	24.95kg (55lbs)	
Operating Voltages	100 / 110VAC @ 50 / 60Hz, 230VAC @ 50 / 60Hz	
Power Consumption	≈3A @ 110V ≈2A @ 230V	

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Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

UK Office Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560 Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.