

# ChemLogic 96 ChemLogic 96 Point Continuous Gas Monitor

Intelligent Optics : Reduced Maintenance and Risk of False Alarms | 16 to 96 Points of Detection : Flexible & Expandable System | Up to 3 Gas Families : Reduced Installation & Operating Costs | Optimized Flow System : Faster Response | 4 Month Cassette Life : Reduced Operating Cost | ChemLogic Technology : Field Proven Reliability | Remote Mountable I/O : Reduced Cost of Installation | USB Port with Memory Stick : Easily Retrievable Data | Real Time Trend Display : Quick Real Time Information | Complete Front Access : Easy to Service | Touch Screen Control : Easy to Startup & Operate | Compact Size : Simple to Install | Energy Efficient (Green) : Uses ~90% Less Energy Per Point than the Competition |

## IMAGE



## ACCESSORIES



## SPECIFICATION

※ Specifications are subject to be changed without prior notice.

CL96 TECHNICAL SPECIFICATIONS	
Detection Principal	ChemLogic Technology
Gases Available	See Below
Monitoring Points	16-32-48-64-80-96 points (with three detection families of gas)
Sample Distance	400ft (122m) 1/4" OD 3/16"ID Teflon FEP
Exhaust Tubing	25ft (7.62m) 3/8"OD 1/4"ID Poly-E (included)
Display	19" Color Touch Screen HMI
Local Alarm Indication	Audible and Visual
Relay Outputs	Programmable Low and High Level
Relay Output Options	24VDC Sinking (standard), 4-20mA & Form C Mechanical Relays
Communication Protocol Options	Ethernet IP (standard), DeviceNet, OPC, Profibus, Modbus, ControlNet, etc.
Operating Temperature	40F to 104F (5°C to 40°C)
Humidity	20-80% RH
Shipping Weight	450 lbs. (204 Kg)
Operating Voltage	100/110 VAC @ 50/60Hz, 230 VAC 50Hz
Power Consumption	Less than 3 Amps
Dimensions	H 59"(+10" for tubing) x W 31"(+9" for wiring) x D 28.5"

HYDRIDES		OXIDIZERS	
Arsine (AsH3)	0-500ppb	Chlorine (Cl2)	0-3200ppb
Diborane (B2H6)	0-500ppb	Chlorine (Cl2)	0-2000ppb
Hydrogen Selenide (H2Se)	0-25ppm	LL Chlorine (Cl2)	0-50ppb
Hydrogen Sulfide (H2S)	0-20ppm	Nitrogen Dioxide (NO2)	0-30ppm
Phosphine (PH3)	0-1500ppb	Fluorine (F2)	0-3200ppb
Si lane (SiH4)	0-50ppm	OTHER	
Tertiary-Butyl-Arsine (TBA)	0-500ppb	Acetic Acid (Low Level)	0-50ppb
* Arsine (AsH3)-LL	0-50ppb	Ammonia (NH3)	0-150ppm
* Germane (GeH4)	0-2000ppb	Bromine (Br)	0-1000ppb
* Hydrogen Selenide (H2Se)	0-500ppb	Carbon Sul fide (COS)	0-20ppm
* Alternate Hydride table selections		Hydrazine (N2H4)	0-500ppb
MINERAL ACIDS		Hydrogen Cyanide (HCN)	0-2500ppb
Boron Trifluoride (BF3)	0-3200ppb	Methyl Isocyanate (MIC)	0-10ppm
Hydrogen Bromide (HBr)	0-20ppm	Phosgene (COCL2)	0-1000ppb
Hydrogen Chloride (HCl)	0-15ppm	Velcorin	0-200ppb
Hydrogen Fluoride (HF)	0-10ppm	**C5F8	0-15ppm
Nitric Acid (HNO3)	0-6ppm	**Nitrogen Trifluoride (NF3)	0-15ppm
Sul furic Acid (H2SO4)	0-750ppb	**Indicates pyrolyzer required	

FORMULA	GAS	LDL	Full Scale	Units	Alarm 1 Default	Alarm 2 Default	DIVISION
Ammonia	NH3	1.2	75	ppm	25	50	OTHER
Ammonia	NH3	1.2	150	ppm	25	50	OTHER
Arsenic Pentafluoride <sup>^</sup>	AsF5 (HF)	0.2	10	ppm	2	4	MINERAL ACIDS
Arsenic Trichloride <sup>^^</sup>	AsHCl3 (HCl)	0.2	15	ppm	5	10	MINERAL ACIDS
Arsenic Trifluoride <sup>^</sup>	AsF3 (HF)	0.2	10	ppm	2	4	MINERAL ACIDS
Arsine	AsH3	2.2	500	ppb	50	100	HYDRIDES
Arsine	AsH3	0.3	50	ppb	5	10	HYDRIDES
Boron Tribromide <sup>^^^</sup>	BBr3 (HBr)	0.1	20	ppm	3	6	MINERAL ACIDS
Boron Trichloride <sup>^^</sup>	BCl3 (HCl)	0.2	15	ppm	5	10	MINERAL ACIDS
Boron Trifluoride	BF3	89	3,200	ppb	1,000	2,000	MINERAL ACIDS
Boron Trifluoride	BF3	89	10,000	ppb	1,000	2,000	MINERAL ACIDS
Bromine	Br2	68.8	1,000	ppb	100	200	OXIDIZERS
Carbonyl Sulfide	COS	0.9	20	ppm	5	10	HYDRIDES
Carbonyl Fluoride <sup>^</sup>	COF2 (HF)	0.2	10	ppm	2	4	MINERAL ACIDS
Chlorine	Cl2	44.6	5,000	ppb	500	1,000	OXIDIZERS
Chlorine	Cl2	50.1	3,200	ppb	500	1,000	OXIDIZERS
Chlorine	Cl2	6.9	2,000	ppb	500	1,000	OXIDIZERS
Chlorine Trifluoride <sup>^</sup>	ClF3 (HF)	0.2	10	ppm	2	4	MINERAL ACIDS
Diborane	B2H6	6	1,000	ppb	100	200	HYDRIDES
Dichlorosilane <sup>^^</sup>	SiH3Cl2 (HCl)	0.2	15	ppm	5	10	OTHER
Fluorine	F2	49.8	3,200	ppb	1,000	2,000	OXIDIZERS
Fluorine	F2	60	10,000	ppb	1,000	2,000	OXIDIZERS
Fluorine (SG)	F2	44	1,000	ppb	100	200	OXIDIZERS
Fluorosilicic acid <sup>^</sup>	H2SiF6 (HF)	0.2	10	ppm	2	4	MINERAL ACIDS
Germane	GeH4	62.1	2,000	ppb	200	400	HYDRIDES
Germanium Tetrafluoride <sup>^</sup>	GeF4 (HF)	0.2	10	ppm	2	4	MINERAL ACIDS
Hexachlorodisilane <sup>^^</sup>	SiCl2 (HCl)	0.2	15	ppm	5	10	MINERAL ACIDS
Hexafluorocyclobutene <sup>**</sup>	C4F6	1.5	40	ppm	5	10	OTHER
Hydrazine	N2H4	4.3	500	ppb	10	20	OTHER
Hydrogen Chloride	HCl	0.1	15	ppm	5	10	MINERAL ACIDS
Hydrogen Chloride	HCl	0.1	20	ppm	5	10	MINERAL ACIDS
Hydrogen Bromide	HBr	0.1	20	ppm	3	6	MINERAL ACIDS
Hydrogen Cyanide	HCN	298.2	2,500	ppb	500	1,000	OTHER
Hydrogen Fluoride	HF	0.2	10	ppm	3	6	MINERAL ACIDS
Hydrogen Fluoride	HF	0.2	20	ppm	3	6	MINERAL ACIDS
Hydrogen Selenide	H2Se	5.1	500	ppb	50	100	HYDRIDES
Hydrogen Sulfide	H2S	13.3	1,500	ppb	1,000	2,000	HYDRIDES
Hydrogen Sulfide	H2S	13.3	500	ppb	1,000	2,000	HYDRIDES
Hydrogen Sulfide	H2S	10	90	ppb	1,000	2,000	HYDRIDES
Hydrogen Sulfide	H2S	0.2	50	ppm	1	2	HYDRIDES
Hydrogen Sulfide	H2S	0.2	20	ppm	1	2	HYDRIDES
Methylene Isocyanate	MIC	3.7	100	ppm	3	5	OTHER
Methylene Isocyanate	MIC	1.5	10	ppm	3	5	OTHER
Nitric Acid	HNO3	187.5	5,000	ppb	2,000	4,000	MINERAL ACIDS
Nitrogen Dioxide	NO2	0.3	100	ppm	3	6	OXIDIZERS
Nitrogen Dioxide	NO2	1.3	30	ppm	3	6	OXIDIZERS
Phenyl Trichlorosilane <sup>^^</sup>	SiCl3Ph (HCl)	0.2	15	ppm	5	10	MINERAL ACIDS
Phosgene	COCl2	8.8	5,000	ppb	100	200	OTHER
Phosgene	COCl2	8.8	3,250	ppb	100	200	OTHER
Phosgene	COCl2	3.9	300	ppb	100	200	OTHER
Phosphine	PH3	4.8	300	ppb	50	100	HYDRIDES
Phosphine	PH3	4.9	1,500	ppb	300	600	HYDRIDES
Phosphine	PH3	4.9	3,000	ppb	300	600	HYDRIDES
Phosphorus Oxychloride <sup>^^</sup>	POCl3 (HCl)	0.2	15	ppm	5	10	MINERAL ACIDS
Phosphorus Pentachloride <sup>^^</sup>	PCl5 (HCl)	0.2	15	ppm	5	10	MINERAL ACIDS
Phosphorus Pentafluoride <sup>^</sup>	PF5 (HF)	0.2	10	ppm	2	4	MINERAL ACIDS
Phosphorus Tribromide <sup>^^^</sup>	PBr3 (HBr)	0.1	20	ppm	3	6	MINERAL ACIDS
Phosphorus Trichloride <sup>^^</sup>	PCl3 (HCl)	0.2	15	ppm	5	10	MINERAL ACIDS
Phosphorus Trifluoride <sup>^</sup>	PF3 (HF)	0.2	10	ppm	2	4	MINERAL ACIDS
Silane	SiH4	0.2	50	ppm	5	10	HYDRIDES
Silane	SiH4	40	15,000	ppb	5,000	10,000	HYDRIDES
Silicon Tetrachloride <sup>^^</sup>	SiCl4 (HCl)	0.2	15	ppm	5	10	MINERAL ACIDS
Stibine	SbH3	14.6	500	ppb	100	200	HYDRIDES
Sulfur Dioxide	SO2	19.3	2,500	ppb	250	500	OTHER
Sulfur Tetrafluoride <sup>^</sup>	SF4 (HF)	0.2	10	ppm	2	4	MINERAL ACIDS
Sulfuric Acid	H2SO4	97.1	3,200	ppb	50	100	MINERAL ACIDS
Tetrakis(dimethylamido)titanium	TDMAT	0.1	10	ppm	1	2	OTHER
Tetrafluorosilane <sup>^</sup>	SiF4 (HF)	0.2	10	ppm	2	4	MINERAL ACIDS
Tin Tetrachloride <sup>^^</sup>	SnCl4 (HCl)	0.2	15	ppm	5	10	MINERAL ACIDS
Trichlorosilane <sup>^^</sup>	SiHCl3 (HCl)	0.2	15	ppm	5	10	MINERAL ACIDS
Tungsten Hexafluoride <sup>^</sup>	WF6 (HF)	0.2	10	ppm	2	4	MINERAL ACIDS
Velcorin	DMDC	8.9	200	ppb	40	80	OTHER

\* Additional ranges may be available and are subject to change. Please see specific product brochure or contact DOD Technologies.

\*\* Requires pyrolyzer option for detection

<sup>^</sup> Compounds which hydrolyze to HF

<sup>^^</sup> Compounds which hydrolyze to HCl

<sup>^^^</sup> Compounds which hydrolyze to HBr