



The DOD64 FTIR Gas Monitor offers a unique solution to today's environmental monitoring needs. This system is integrated with all new state-of-the-art controls and HMI systems. The DOD64 FTIR new multipoint system makes FTIR monitoring more affordable per point and simplifies the operations through a well-thought-out, customer-driven innovative engineering approach.

This new innovative gas detection system enables customers to experience advanced technology at a lower initial investment and reduced cost of ownership.

DOD64 FTIR Continuous Gas Monitor

Features

- Advanced Interferometer
- 16 - 64 Points Of Detection
- 20 Gas Selection Per Point
- 50 Initial Gases to Select From
- MCT Stirling Cooled Detector
- Ceramic Globar IR Source
- VCSEL Reference Laser
- Sample Cell Volume 400 ML
- USB Port With Memory Stick
- Real Time Trend Display
- Complete Front Access
- Touch Screen Control
- Compact Size
- Advanced HMI & Flash Control

Benefits

- Increased Reliability / Lower Maintenance
- Flexible & Expandable System
- Cost Effective Monitoring Per Point
- Flexible to Adapt to New Requirements
- Detects Gases At a Much Lower Level (PPB)
- Increased Reliability / Lower Maintenance
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- Quick Sample Fill Time & Analysis (min 10 sec.)
- Easily Retrievable Data and Spectra
- Quick Real Time Information and Spectra
- Easy to Service
- Easy to Start Up & Operate
- Simple to Install / Saves Space
- More Reliable and Easy to Learn

Technical Specifications

Detection Principle	FT-IR Technology
Gas Families Available	See Table Below
Monitoring Points	16, 32, 48, 64
Sample Distance	400ft (122m) - .25" OD, .187" ID Teflon FEP
Exhaust Tubing	25ft (7.62m) -.375" OD, .25" ID Poly-E (Included)
Display	19" Color Touch Screen HMI
Local Alarm Indication	Audible and Visual
Relay Outputs	Programmable Low and High Level Fault
Operating Temperature	40°F - 104°F (5°C - 40°C)
Shipping Weight	450 lbs. (204 Kg)
Operating Voltage	100- 110 VAC (50/60Hz), 230 VAC (50Hz)
Power Consumption	Less Than 6 Amps
Dimensions	H-59" (+10" For Tubing) W-31" (+9" For Wiring) D-28.5"
Spectral Range	4.0 cm - 1
Scan Speed	1 Scan / Sec at 4.0 cm - 1
Selectable Scan Time	1 - 300 Seconds
Infrared Source	Ceramic Globar at 1500 C°
Reference Laser	Vertical Cavity Surface Emitting Laser at 850nm
Detector	Stirling-Cooled MCT
Line Flow	Continuous Line Purge
Line Sample Analysis	Sequential (As little as 10 sec per)
Gas Cell Path Length	10.0 m Effective Path
Gas Cell Construction	Nickel Coated Aluminum
Mirrors	ZnSe



Gas Families Available

Formula	Gas	Cas Number	LDL 10 sec In N2 ppb	LDL 5 min In N2 ppb
ASH3	Arsine	7784-42-1	5-25***	.5-4 ***
B2H6	Diborane	19287-45-7	5	0.83
BCl3	Boron Trichloride	10294-34-5	5	0.17
BF3	Boron Trifluoride	7637-07-2	80**	13**
C2H4	Ethylene	74-85-1	50	8.2
C2H7N	Dimethylamine (DMA)	124-40-3	24	4
C3H6	Propene / Propylene	115-07-1	48	8
C3H6O	Acetone	67-64-1	60	10
C3H9B	TMB / Trimethylboron	593-90-8	N/A	N/A
C3H9P	TMP / TrimethylPhosphine	594-09-2	N/A	N/A
C4F6	Hexafluoro-1,3 butadiene	685-63-2	10	1.67
C4H13NO	Tetramethyl Ammonium Hydroxide/TMAH/TMAOH	75-59-2	N/A	N/A
C5F8	Octafluorocyclopentene	559-40-0	3	0.5
C5H10O	2-Pentanone	107-87-9	16	2.7
C6H12O3	PGMEA	108-65-6	20	3
C6H6	Benzene	71-43-2	90	15
C7H14O	2-heptanone	110-43-0	15	2.5
C7H14O3	Ethyl 3-ethoxypropionate	763-69-9	N/A	N/A
C7H8	Toluene	108-88-3	60	10
C8H10	p-Xylene	106-42-3	20	3
CCL4	Carbon tetrachloride	56-23-5	N/A	N/A
CH2F2	Difluoromethane (R32)	75-10-5	5	0.83
CH3CO2H	Acetic Acid	64-19-7	4.5	0.8
CH3F	Methyl Fluoride (R41)	593-53-3	75	12.5
CH3OH	Methyl Alcohol	67-56-1	16	3
CH4	Methane	74-82-8	28	4.5
CHCl3	Chloroform	67-66-3	7.2	1.1
CHF3	Fluoroform	75-46-7	N/A	N/A
CNCl	Cyanogen Chloride	506-77-4	1000	180
CO	Carbon Monoxide	630-08-0	21	3.5
CO2	Carbon Dioxide	124-38-9	N/A	N/A
Coolent HT200	Galden HT 200 Coolent See attached MSDS	N/A	N/A	N/A
COS	Carbonyl Sulfide	463-58-1	15	2.5
GeH4	Germane	7782-65-2	5***	.33***
H2O	Water	7732-18-5	12	2
HBr	Hydogen Bromide	10035-10-6	65	10
HCL	Hydrogen Chloride	7647-01-0	20	3.33
HF	Hydrogen Fluoride	7664-39-3	12	2
HMDS	Hexamethyldisilazane	999-97-3	3.6	0.6
HNO3	Nitric Acid	7697-37-2	11	2
IPA	Isopropyl Alcohol	67-63-0	30	5
C5F8	Octafluorocyclopentene	559-40-0	5	0.5
N2O	Nitrous Oxide	10224-97-2	3	0.5
NF3	Nitrogen Trifluoride	7783-54-2	5	0.33
NH3	Ammonia	7664-41-7	7	1.17
NMP	N-Methyl-2-Pyrrolidone	872-50-4	6.5	1.1
NO	Nitric Oxide	10102-43-9	5	0.02
O3	Ozone	10028-15-6	12	2
PH3	Phosphine	7803-51-2	20***	3.3***
POCL3	Phosphoryl chloride	10025-87-3	N/A	N/A
Si(CH3)3	Trimethyl Silane TMS	993-07-7	N/A	N/A
Si(CH3)4	Tetramethylsilane or 4MS	75-76-3	N/A	N/A
SiCl4	Silicon Tetrachloride	10026-04-7	380	63
SiF4	Silicon Tetrafluoride	7783-61-1	0.6	0.1
SiH2CL2	Dichlorosilane	4109-96-0	5	0.75
SiH4	Silane	7803-62-5	7	1.17
SiHCL3	Trichloro Silane	10025-78-2	4.5	0.75
SO2	Sulfur Dioxide	7446-09-05	N/A	N/A
TEOS	Tetraethoxysilane	78-10-4	5	0.33
WF6	Tungsten Hexafluoride	7783-82-6	8	1.3