



DOD64 FTIR

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.



Need a quote?

Our customer focused sales staff can provide a quote based on your application and gas detection requirements. Visit our website to submit a quote request or build your own online at www.dodtec.com.

Features	Benefits
Advanced interferometer	Increased reliability / Lower maintenance
16 – 64 points of detection	Flexible & Expandable system
20 gas selections per point	Cost-effective monitoring per point
50 initial gases to select from	Flexible to adapt to new requirements
MCT Stirling cooled detector	Detects gases at a much lower level (PPB)
Ceramic globar IR source	Increased reliability / Lower Maintenance
VCSEL reference laser	Increased reliability / Lower Maintenance
Sample cell volume 400ML	Quick sample fill time and analysis (min 10 sec.)
USB-port with memory stick	Easily retrievable data and spectra
Real-time trend display	Quick real-time information and spectra
Complete front access	Easy to service
Touch screen control	Easy to start up and operate
Compact size	Simple to install in existing layouts
Advanced HMI and flash control	More reliable and easy to learn

Service

If you're in need of service on your gas detection equipment, visit our website to learn more about what we offer. On-site, contract, and mail-in are just a few of the capabilities our fully-trained service engineers can handle.

Technical Specifications	
Detection Principle	FTIR (MCT or DGT Methods Available)
Gas Families Available	See Next Page
Monitoring Points	16 up to 64 (In 16-point increments)
Sample Distance	400ft. (122m) - .25" OD, .187" ID Teflon FEP tubing
Exhaust Tubing	25ft. (7.62m) -.375" OD, .25" ID Poly-E (Included)

Ready to order?

Send in your purchase order to solutions@dodtec.com

Display	19" Color touch screen
Local Alarm Indication	Visual on Display & Audible (Optional light tower available)
Relay Outputs	Programmable low and high-level faults
Operating Temperature	40°F – 104°F (4°C – 40°C)
Dimensions	<i>L x W x H</i> - 59" (+10" For Tubing) x 31" (+9" for Wiring) x 28.5"
Shipping Weight	450lbs. (204 kg)
Operating Voltage	100 – 110VAC (50/60Hz), 230VAC (50Hz)
Power Consumption	Less than 6 Amps
Enclosure	Powder Coated Steel
Spectral Range	4.0cm - 1
Scan Speed	1 scan per second at 4.0cm - 1
Selectable Scan Time	1-300 Seconds
Infrared Source	Ceramic Globar at 1500°C
Reference Laser	Vertical cavity surface emitting laser at 850 mm
Detector	MCT or DGT
Line Flow	Continuous line purge
Line Sample Analysis	Sequential (As little as 10 secs per point)
Gas Cell Path Length	10.0m Effective Path
Gas Cell Construction	Nickel Coated Aluminum
Mirrors	ZnSe

Gas Families Available

Formula	Gas	Cas	LDL 10 sec	LDL 5 min
		Number	In N2	In N2
			ppb	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	Hydrogen 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
C2HCl3	Trichloroethyle	79-01-6	N/A	N/A