DOD64 FTIR (DTGS) 64-Point Continuous Gas Detection System

DOD Technologies

The DOD64 FTIR Gas Detector offers a unique solution to today's environmental monitoring needs. This system can detect and specify virtually any gas, chemical, or odor in an industrial process. It accomplishes this through the analyzation of the gas infrared spectra.

This HMI system is integrated with state-of-the-art controls. The sequential monitor can be customized to monitor between 16 and 64 points. The unique design was derived through an innovative, user-driven engineering approach to simplify operation.

MOST PRECISE

GAS DETECTION

HYROCARBON

SPECIFICITY

LOW

MAINTENANCE

ENERGY

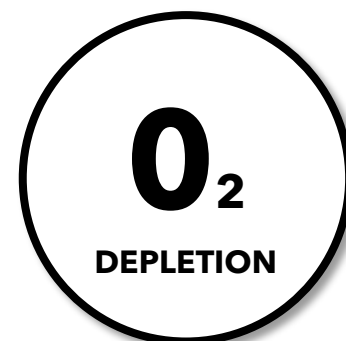**EFFICIENT**

Features & Benefits

FEATURES	BENEFITS
Advanced Interferometer	Increased reliability, reduced maintenance
Gases per Point (20)	Cost-effective monitoring on a per point basis
Initial Gas Selections (50)	Flexible to adapt to new requirements
MCT Bench Option	Stirling-cooled, detects at PPB levels (not standard)
Real-Time Trend Display	Quick information and spectra on-demand
Complete Front Access	Simple to access, easy to service
Touch Control	Easy to start-up and operate
Compact Size	Simple to install and maintain
Remote Mountable I/O	Reduced cost of installation
16 to 64 Points	Flexible and expandable system
Sample Cell Vol. (400MI)	Quick sample fill time and analysis (min. 10 sec.)

Detectable Gases

This state-of-the-art detector saves the infrared spectra of area scans. These spectra provide a **fingerprint** of the air samples. With this print, virtually any gas can be specified and detected. Organics, PFC, CFC, HFC, NF3, and a wide variety of other inorganic gases can be monitored.

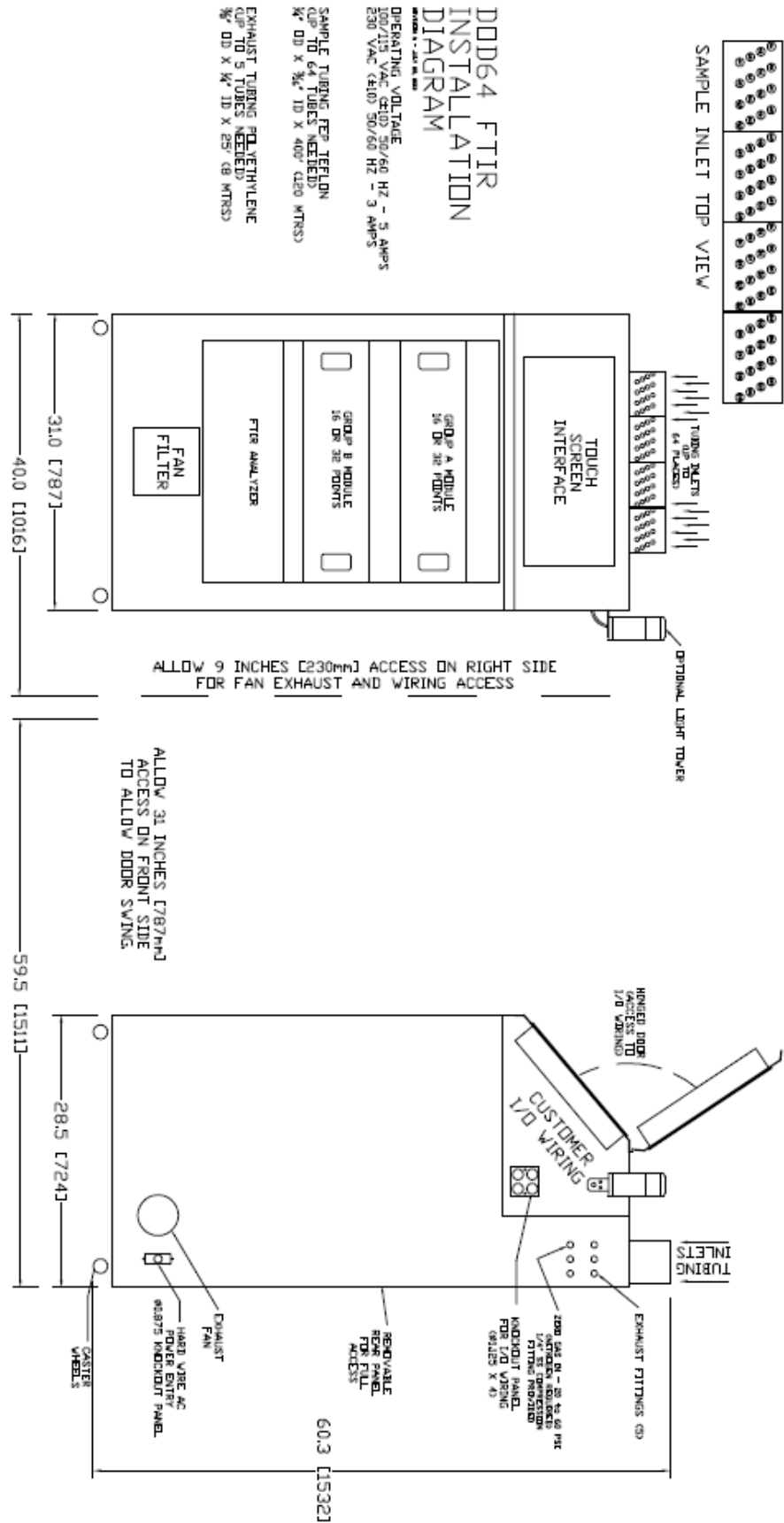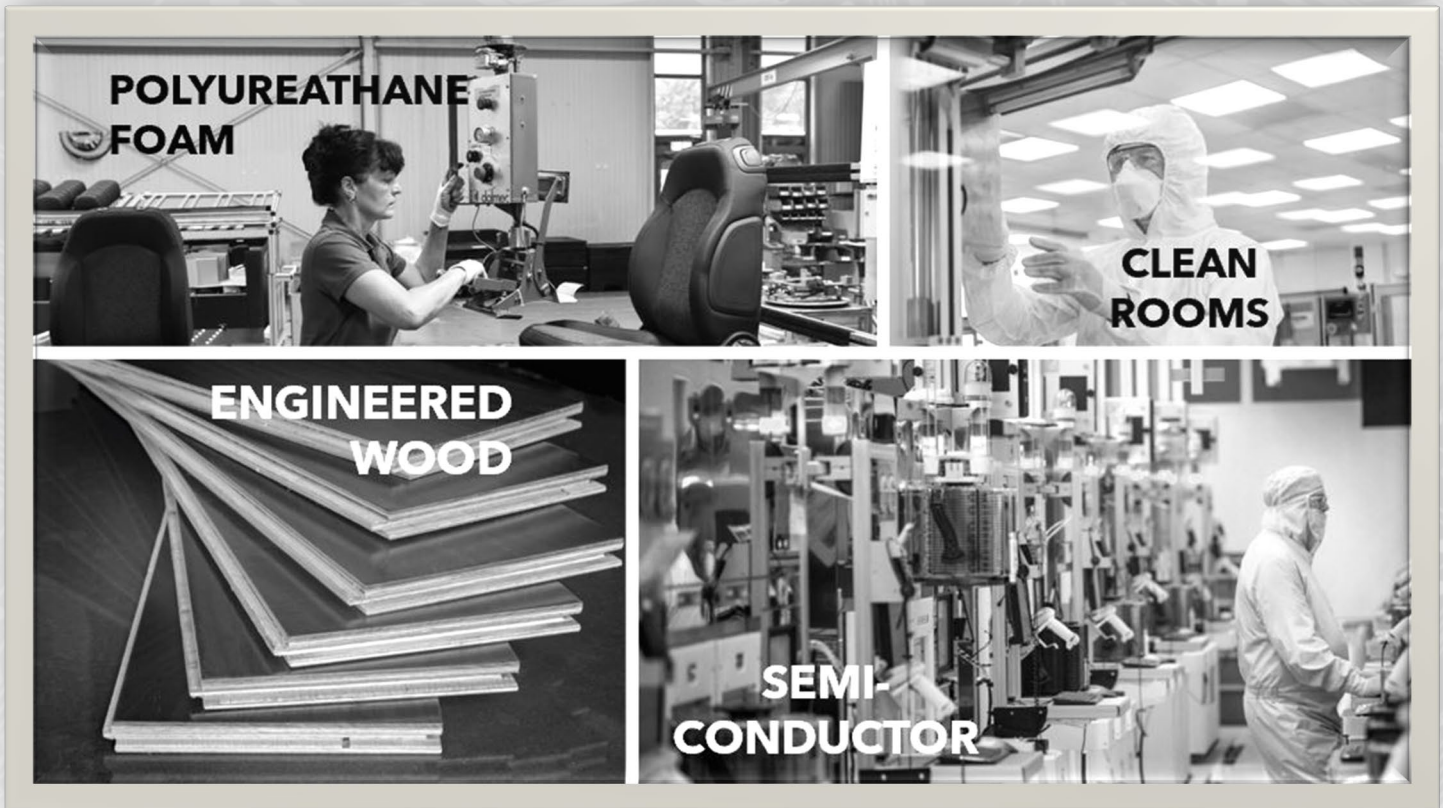*Over 250 gas curves developed for all types of gases*

TOXIC

CORROSIVE

FLAMMABLE

O_2 DEPLETION

Specifications

Model #	DOD64
Detection Principle	FTIR (Fourier Transform Infrared Spectroscopy)
Monitoring Points	16 to 64 (in 16-point increments)
Sample Distance	400 ft. (122m) – 1/4" OD x 3/16" ID Teflon FEP tubing
Exhaust Tubing	25 ft. (7.6m) – 3/8" OD x 1/4" Poly-E tubing
Display	19" Color Touchscreen
Local Alarm Indication	Visual on display and audible (with light tower)
Relay Outputs	Programmable low and high-level faults
Operating Temperature	40°F to 104°F / 4°C to 40°C
Operating Voltage	100 – 110VAC (50/60Hz), 230VAC (50Hz)
Power Consumption	Less than 6 Amps
Enclosure	Powder coated steel
Spectral Range	8,300cm-1 to 350cm-1
Spectral Resolution	4.0cm-1
Line Flow	Continuous line purge
Line Sample Analysis	Sequential (as little as 10 seconds per point)
Gas Cell Path Length	5 meters effective path
Gas Cell Construction	303 stainless steel
Mirrors	ZnSe or KBR
Communication	Ethernet, DeviceNet, OPC, Profibus, Modbus, ControlNet
Dimensions	59"H x 31"W x 28.5"D (1499mm x 787mm x 724mm)
Weight	450 lb. (204.12 kg), Approx. based on specs

Installation Dimensions (in inches)

DOD64 FTIR
INSTALLATION
DIAGRAM

OPERATING VOLTAGE
100/115 VAC (±10) 50/60 HZ - 5 AMPS
230 VAC (±10) 50/60 HZ - 3 AMPS

SAMPLE TUBING FEP TEFLON
(UP TO 64 TUBES NEEDED)
¼" OD X ³⁄₁₆" ID X 400' (120 MTRS)

EXHAUST TUBING POLYETHYLENE
(UP TO 5 TUBES NEEDED)
⅜" OD X ¼" ID X 25' (8 MTRS)

SAMPLE INLET TOP VIEW

TUBING INLETS
(UP TO 64 PLACES)

FAN
FILTER

FTIR ANALYZER

GROUP B MODULE
16 OR 32 POINTS

GROUP A MODULE
16 OR 32 POINTS

TOUCH
SCREEN
INTERFACE

31.0 [787]

40.0 [1016]

OPTIONAL LIGHT TOWER

ALLOW 9 INCHES [230mm] ACCESS ON RIGHT SIDE
FOR FAN EXHAUST AND WIRING ACCESS

ALLOW 31 INCHES [787mm]
ACCESS ON FRONT SIDE
TO ALLOW DOOR SWING

59.5 [1511]

28.5 [724]

HINGED DOOR
(ACCESS TO
I/O WIRING

CUSTOMER I/O WIRING

TUBING INLETS

CASTER WHEELS

EXHAUST FAN

HARD WIRE AC
POWER ENTRY
Ø0.875 KNOCKOUT PANEL

REMOVABLE
REAR PANEL
FOR FILL
ACCESS

KNOCKOUT PANEL
FOR I/O WIRING
(Ø0.125 X 4)

ZERO GAS IN - 25 to 60 PSI
(NITROGEN REQUIRED)
¼" SS COMPRESSION
FITTING PROVIDED

EXHAUST FITTINGS (5)

60.3 [1532]

REALIBILITY & SUPPORT

DOD Technologies is the global leader in low level gas detection systems and solutions. We understand the importance of keeping your business operational and know that that false alarms can cost millions of dollars in lost productivity.

We offer a comprehensive line of ChemLogic® gas detection products, engineered to an enhanced standard of accuracy and reliability. Our worldwide network of knowledgeable service engineers are also ready to assist you with a passion for gas detection. The DOD Technologies portfolio includes fixed systems, portable gas detectors, controllers, systems integrations and on-site field services.

For more information, or to order, please visit us at DODtec.com.