



Cosmos PS-7 Single Point Gas Detector

DOD Technologies

The versatile PS-7 Single Point Gas Detector is capable of monitoring a wide range of toxic and combustible gases, as well as oxygen depletion. This reliable system utilizes gas-specific sensors and multiple detection principles including electrochemical, hot-wire, and galvanic.

The device can extract a sample from up to 75 feet away with its robust pump that lasts up to seven years. Add a compact and reliable low-temperature pyrolyzer for NF₃ monitoring. Choose from a vast selection of high-quality, replaceable sensors to identify your preferred target gas.



Detects low levels of NF₃ when combined with optional pyrolyzer

CONTINUOUS



MONITORING

LOW



MAINTENANCE

PYROLYZER FOR

NF₃

DETECTION

5-YEAR



**COMBUSTIBLE
SENSOR**



Key Features & Benefits

Features	Benefits
AUTO Flow Control	Sample flowrate held constant for stable detection
Large LCD	Device status can be read at-a-glance
Easy Sensor Replacement	Sensors & Flow Path can be changed without tools
Smart Sensors	Error alarm issued if sensor loaded for different gas

Sensor Replacement



Remove the main unit from the base unit.



Remove the back cover of the main unit.



Remove the old sensor unit and load the new sensor unit.



Mount the main unit on the base unit and press the test switch to confirm operation.

Detectable Gases

Acetic Acid, 0-2000 ppm
Acetone, 0-5000 ppm
Acetone, 0-2000 ppm
Acetonitrile, 0-5000 ppm
Acetylene, 0-100% LEL
Acetylene, 0-5000 ppm
Acetylene, 0-2000 ppm
Ammonia, 0-100 ppm
Arsine, 0-0.25 ppm
Benzene, 0-200 ppm
Butadiene, 0-5000 ppm
Butyl Acetate, 0-2000 ppm
Carbon Monoxide, 0-250 ppm
Carbon Monoxide, 0-100 ppm
Chlorine, 0-5 ppm
Chlorine, 0-1.5 ppm
Chlorine (non-standard range), 0-10 ppm
Chlorine Trifluoride, 0-1 ppm
Chlorobenzene, 0-500 ppm
Chlorodifluoromethane (R 22), 0-2000 ppm
Chloroform, 0-2000 ppm

Diborane, 0-0.5 ppm
Dichlorosilane, 0-25 ppm
Difluoromethane (R 32), 0-2000 ppm
Dimethylamine, 0-50 ppm
Dimethylamine, 0-15 ppm
Dimethylamine, 0-25 ppm
1,4 Dioxane, 0-5000 ppm
1,4 Dioxane, 0-2000 ppm
Disilane, 0-25 ppm
Disilane, 0-5 ppm
Ethane (less interference to others), 0-5000 ppm
Ethane (less interference to H₂/IPA), 0-5000 ppm
Ethanol, 0-5000 ppm
Ethanol (w/Toluene correlation curve), 0-5000 ppm
Ethanol, 0-100% LEL
Ethanol, 0-500 ppm
Ethanol, 0-2000 ppm
Ethylene, 0-100% LEL
Ethylene, 0-2000 ppm
Ethylene Oxide (EO), 0-5000 ppm
Ethylene Oxide (EO), 0-2000 ppm



Detectable Gases, cont.

Fluorine, 0-5 ppm
Fluorine, 0-3ppm
Formaldehyde, 0-200ppm
Gasoline, 0-100% LEL
Gasoline, 5000 ppm
Gasoline, 1000 ppm
Gasoline, 2000 ppm
Germane, 0-1 ppm
Hexafluorobutadiene, 0-2000 ppm
n-Hexane, 0-2000 ppm
n-Hexane, 0-200 ppm
Hexane, 0-100% LEL
Hydrogen (H₂ specific), 0-10k ppm
Hydrogen (H₂ specific), 0-2000 ppm
Hydrogen (H₂ specific), 0-1000 ppm
Hydrogen Sensor (will not detect CH₄), 0-100% LEL
Hydrogen Bromide, 0-10 ppm
Hydrogen Chloride, 0-25 ppm
Hydrogen Chloride, 0-5 ppm
Hydrogen Fluoride, 0-10 ppm
Hydrogen Fluoride, 0-2.5ppm
Hydrogen Selenide, 0-250 ppb
Hydrogen Sulfide, 0-50 ppm
Hydrogen Sulfide, 0-10 ppm
Hydrogen Sulfide (non-standard range), 0-5 ppm
Iso-butane, 0-5000 ppm
Iso-butane, 0-2000 ppm
Isobutylene, 0-2000 ppm
Isopropyl alcohol (IPA), 0-100% LEL
Isopropyl alcohol (IPA), 0-5000 ppm
Isopropyl alcohol (IPA), 0-2000 ppm
LPG (Iso-butane basis), 0-100% LEL
LPG (Iso-butane basis), 2000 ppm
Methane General Combustible, 0-100% LEL
Methane General Combustible, 0-5000 ppm
Methane General Combustible, 0-2000 ppm
Methane Selective (will not detect H₂), 0-10k ppm
Methane Selective (will not detect H₂), 0-1000 ppm
Methanol, 0-100% LEL
Methanol, 0-5000 ppm
Methanol, 0-2000 ppm
Methyl Bromide, 0-2000 ppm
Methyl Chloride, 0-1000 ppm
Methyl Ethyl Ketone (MEK), 0-100% LEL
Methyl Ethyl Ketone (MEK), 0-2000 ppm
Methyl Ethyl Ketone (MEK), 0-1000 ppm
Methyl Fluoride (R41), 0-3000 ppm
Methyl Fluoride (R41), 0-2000 ppm

Methyl Pyrolidinoner NMP, 0-2000 ppm
Methylene Chloride, 0-2000 ppm
Methylene Chloride, 0-1000 ppm
Nitric Oxide, 0-100 ppm
Nitric Oxide, 0-10 ppm
Nitrogen Dioxide, 0-10 ppm
Nitrogen Trifluoride, 0-100 ppm
Nitrogen Trifluoride, 0-30 ppm
Nitrogen Trifluoride (non-standard range), 0-250 ppm
Octane, 0-2000 ppm
Octane, 0-1000 ppm
Oxygen, 0-25% vol
Ozone, 0-1ppm
Pentane, 0-5000 ppm
Pentane, 0-2000 ppm
Phosphine, 0-1 ppm
Phosphorous Trifluoride, 0-10 ppm
Propane LPG Sensor (will not detect CH₄), 0-100% LEL
Propylene, 0-100% LEL
Propylene, 0-2000 ppm
Propyl acetate, 0-100% LEL
Propyl acetate, 0-2000 ppm
Propylene glycol monomethyl ether (PGME), 0-5000 ppm
Propylene glycol monomethyl ether acetate (PGMEA), 0-5000 ppm
Propylene Oxide, 0-2000 ppm
Silane, 0-25 ppm
Silane, 0-5 ppm
Styrene, 0-2000 ppm
Sulfur Dioxide, 0-25 ppm
Sulfur Dioxide, 0-10 ppm
Toulene, 0-2000ppm
Trans LC, 0-2000 ppm
Trans LC, 0-1000 ppm
Trifluoromethane (R23), 0-2000 ppm
Vinyl Chloride, 0-500 ppm
Xylene, 0-100% LEL
Xylene, 0-2000 ppm



Visit DODtec.com for additional details or to shop PS-7 Series Sensors.



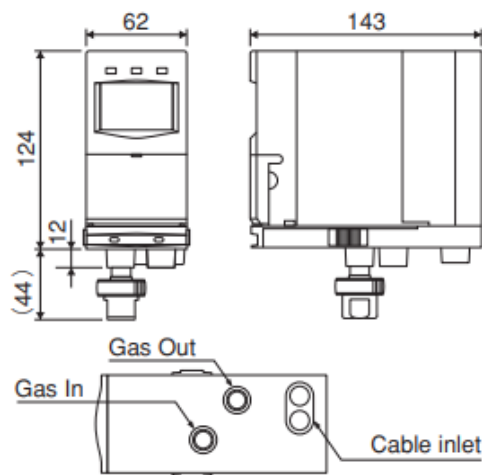
Specifications

Model		PS-7
Detection Principle	Standard Type	Electrochemical cell, Hot wire semiconductor, Galvanic cell
	With a Pyrolyzer	Pyrolysis + Electrochemical cell
Sampling Method		Extractive type (Sample flow rate: 0.5L/min, automatic control)
Sampling Tubing ^{*1}		Up to 75 ft. - 1/4" OD x 3/16" ID Teflon FEP Tubing (or up to 16 ft for absorbent gases)
Local Alarm		Visual & Audible
Display		Back-lit LCD
External Output		- Gas concentration analog output: 4-20mA DC
		- Gas alarm contact: 1a no-voltage /non-latching
		- Trouble alarm contact: open/non-latching
Relay Outputs		Programmable low and high-level faults
Operating Temp.		32°F - 104°F 0°C - 40°C
Dimensions		2.4"H x 4.9"W x 5.6"D
Shipping Weight		3 lbs.
Operating Voltage		24V DC +/-10%
Power Consumption		Approximately 7W
Application Cable		3C or 4C shielded control cable
Communication		Ethernet, DeviceNet, Modbus

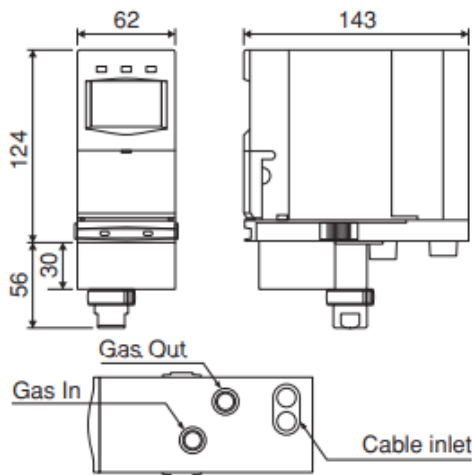
^{*1} Teflon is recommended but it depends on operating conditions when the gas absorption capacity is high. Please contact us for more information.

Installation Dimensions (IN/MM)

PS-7

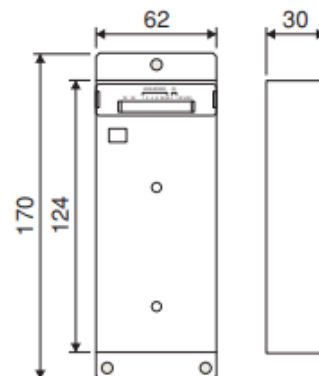


With a pyrolyzer



Option
DeviceNet Unit

(Units: mm)





DOD Technologies is the global leader in low-level gas detection systems and solutions. We understand the importance of keeping your employees safe and your business operational. And, we know that even false alarms can be extremely costly in lost productivity.

The DOD Technologies portfolio includes fixed systems, portable gas detectors, controllers, onsite and field technical services and system integrations. Our comprehensive line of gas detection products begins with ChemLogic®, which is engineered to an enhanced standard of accuracy and reliability. Our network of knowledgeable sales and service technicians stands ready to assist you, backed by years of gas detection experience.

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



DOD Technologies, Inc.
675 Industrial Drive
Cary, IL 60013



(815) 788-5200



DODtec.com