



# Introducing the Orion™ FX Multigas Detector

**MSA**

**ORION® FX**

# Contents



- ❑ Markets
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# Markets



Oil & Gas

Chemical

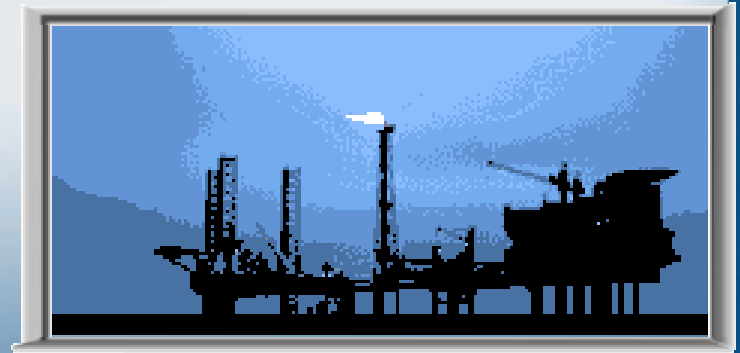
Various  
Industrial  
Applications



# Oil and Gas



- Incomplete combustion
- Confined space
- Coking
- General processing
- Leak detection
- Treatment processes
- Crude separation
- Oil rigs



# Various Industrial Applications



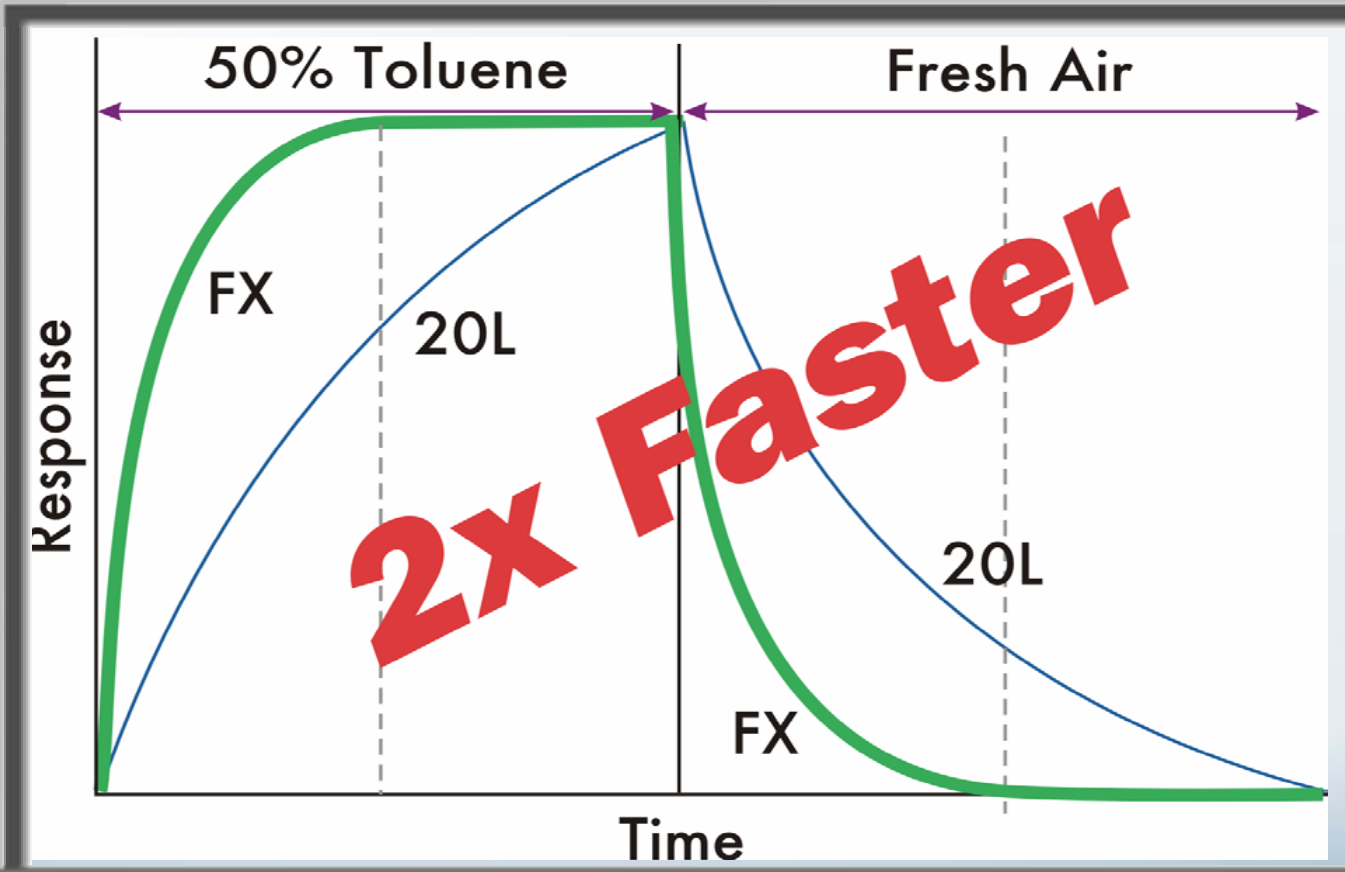
- Anywhere confined space or personal monitoring is needed

# Faster Response



- Faster Responding Combustible Sensor
  - Toluene
  - Xylene
  - Other aromatic hydrocarbons
- Ideal for chemical and petrochemical markets

# Faster Response





# The Best 4-Gas Detector Under the Stars



## Down-to-Earth Price



# Orion FX unit detects 1-4 of the following:



- Combustible gases
- Oxygen
- Carbon Monoxide
- Hydrogen Sulfide

User can configure in any  
combination of the above

# Two instrument versions available



○ Internal pump version

Pump cover



Filter

○ Diffusion version



# Two battery versions



- Rechargeable nickel metal hydride
  - 16 hours in pump mode
  - 20 hours in diffusion mode
  - Easy to reach and change
    - Held in place by two screws
- Alkaline
  - 8 hours in pump mode

# Why the Orion FX Detector?



- One-button calibration
- Tough, durable construction
- Large, easy-to-read display
- Long-life battery
- Built-in pump
- Durable sensors
- Carbon-filled-nylon case
- TIM<sup>®</sup> System compatible & Link<sup>™</sup> Software

# One-button Calibration



- Intuitive
- Adjustments are limited to 30% of the expected span value
  - Helps prevent improper calibration
- Keeps bump testing and maintenance easy!

# Tough, Durable Construction



- IP54 rating against water and dust
- Passes a 6-ft. drop test onto concrete!



- Unit will stand up to the toughest environments!

# Large, Easy-to-read Display



- One of the largest on the market
- Backlight provides excellent contrast
- All four gases are displayed at one time
- All four gas concentration readings are displayed at one time
- So simple to read!

# Long-life Battery



- Rechargeable nickel metal hydride
  - 16 hours in pump mode
  - 20 hours in diffusion mode
- Great for long or double shifts!

# Built-in Pump



- Integral part of unit
- Quick response time with sample line
- Easy to check space before entry
- Integral filter stops foreign material from reaching inside instrument
- Easy to replace filter
- No need for cumbersome aspirator bulb
- Pump is powered by same NiMH battery that powers the instrument



# Carbon-filled-nylon case

Excellent choice for use in tough conditions

Especially corrosive environments!

# TIM<sup>®</sup> System Compatible



- Available if data-logging option is selected
- Allows users to automatically calibrate units
- Easy to track calibration records!

# Link™ Software



- Same software as in the FiveStar® Alarm
- Displays functions and simplifies manipulation of data
- Graphs all gases simultaneously
- Easy to focus on any detail!

# The Orion FX **R.E.D.** Alert



- The key to selling Orion FX units
- Orion FX Detector beats the competition in:

**R**

Reliability

**E**

Ease of use

**D**

Durability

# Reliability



- Proven pump technology; same as in MSA's FiveStar<sup>®</sup> Alarm
- 16- to 20-hour run time (with pump) for double shifts

# Ease of use



- One-button calibration
- Large, easy-to-read display with great contrast. Most competitive units have small windows and moderate contrast.
- Separate display for alarm icons; alarms displayed directly above gas readings
- Alarm lights visible from all angles

# Ease of use (cont.)



- Accommodates either NiMH or alkaline battery pack (interchangeable)
- Sensors are easy to change—simply remove 3 screws
- Simple, intuitive, 2-button operation
- Optional datalogging feature allows TIM<sup>®</sup>-type system compatibility

# Durability



- IP54 rating, for greater resistance to dust and water
- Tough, durable construction; passes 6-ft. drop test