



MSA Gas Detection System

[Wing Fuel Tank Monitoring System]



Application

Large aircraft, especially military aircraft require periodic maintenance. As part of this maintenance, the fuel tanks must be drained and inspected and if necessary, repaired. Confined space entry into fuel tanks is required in order to perform these duties.

As a technician enters the fuel tank an attendant must be present at the entrance to monitor the tank's atmosphere using a portable gas monitor. This attendant must remain at the entrance until the technician emerges from the tank. Up to eight fuel tanks may be undergoing inspection or repair simultaneously on one aircraft and with one attendant required for each confined space entry, twice as many personnel are needed to complete the job.

Product Description

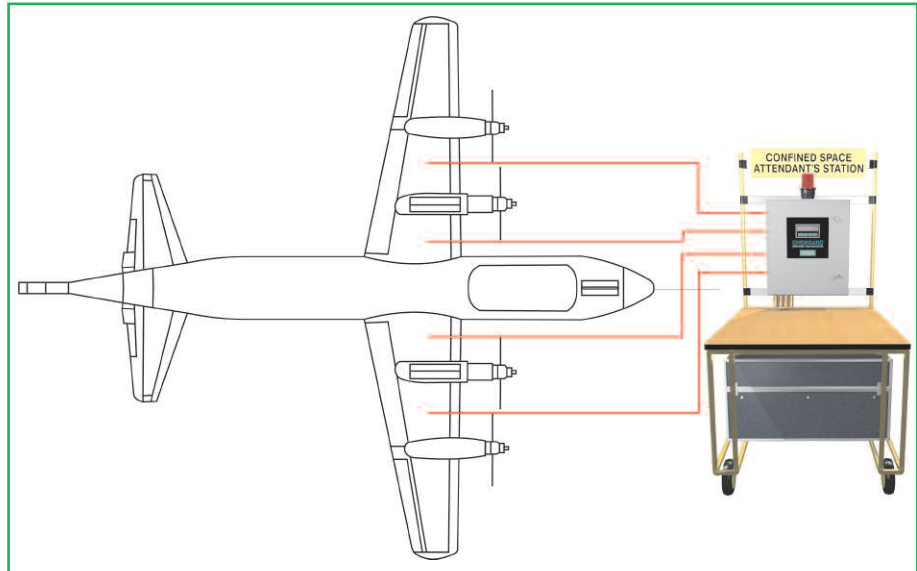
MSA's new Wing Fuel Tank Monitoring System reduces the number of attendants required to just a single attendant to monitor in front of the aircraft. The Wing Fuel Tank Monitoring System samples up to eight fuel tanks simultaneously for combustible atmospheres and the presence of sufficient oxygen. The Chemgard® Photoacoustic Infrared Gas Monitor is used within this system to detect for ppm of JP-8. An internal electrochemical sensor is used to detect oxygen levels.

Operation

The Wing Fuel Tank Monitoring System is placed at the nose of the aircraft with flexible plastic tubing routed to the aircraft's fuel

tanks. The single attendant is stationed at the system, continuously viewing readouts to observe a possibly explosive or oxygen-deficient condition within any of the tanks. Since only one attendant is necessary, the labor cost is dramatically reduced. Likewise, safety is enhanced because the system monitors the fuel tanks continuously, 24/7.

When the fuel tank inspection or repair is complete, the system can be moved to another aircraft. This system is currently being used by U.S. Navy contractors.



Benefits

- Only one attendant needed for all confined space entries
- Quick setup
- Saves time
- 24/7 monitoring of combustible gases in ppm levels and oxygen
- Exceptional return on investment

Note: This is a representative description of this product and its potential applications. Contact MSA Custom Products at customproducts@MSAnet.com for information on customizing this unit to fit a specific need.

Ordering Information

Fuel Tank Monitoring System (CSGA)

DSK3090-448

Options:

- Portable gas detection instrument with internal PID sensor
- Intrinsically safe communication headsets

Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



Data Sheet 07-2101 Oct 2005 (L)

© MSA 2005 Printed in U.S.A.
Subject to changes without notice

MSA – The Safety Company

1000 Cranberry Woods Drive
Cranberry Township, PA 16066 USA
Phone 724-776-8600
www.MSAsafety.com

U.S. Customer Service Center

Phone 1-800-MSA-2222
Fax 1-800-967-0398

Pacific Asia Region

MSA Singapore
MSA S.E Asia Pte Ltd
35 Marsiling Industrial Estate Road 3,
#04-01, Singapore 739257
Phone: +65 6350 4500
Fax: +65 6350 4505

MSA Australia

Phone: 1300 728 672 / +61 02 9688 0333
Fax: +61 2 9896 1835

MSA Indonesia

Phone: +62 21 6409 000
Fax: +62 21 641 2831

MSA Malaysia

Phone: +603 8724 8208/9208
Fax: +603 8724 2208

MSA New Zealand

Customer Service
Phone: 0800 441 335

MSA Philippines

Phone: +63 9209 742 191

MSA Thailand

Phone: +66 2617 8211
Fax: +66 2617 8214

For sales enquiry, contact us [here](#).

