

AP1006:

GfG Instrumentation, Inc. Functional (Bump) Check and Calibration Statement for USA instrument users

February 11, 2013

Calibration of the sensors as well as the proper performance of the audible and visual alarms should be verified by performing a functional (bump) test by exposure to known concentration test gas before each day's use.

Readings of the combustible, carbon monoxide and hydrogen sulfide sensor should be within plus or minus 10% of the concentration of gas applied.

The oxygen sensor should be exposed to a concentration of oxygen low enough to activate the oxygen deficiency alarm. Readings should recover to normal fresh air values of 20.9% within 30 seconds.

OSHA has provided an instructional letter which explains conditions and methods that may be used to lengthen the interval between functional (bump) tests. According to this OSHA guidance the interval should not be lengthened beyond once every 30 days. The letter is available at the following link: <http://www.osha.gov/dts/shib/shib050404.html>

Any incidents or exposure to contaminants that might adversely affect calibration should trigger a functional (bump) test before further use.

A full calibration should be performed any time the instrument fails a functional (bump) test before further use.

Even if the instrument passes all functional (bump) tests successfully; a full calibration should be performed at least once every six months.

GfG Instrumentation, Inc.
1194 Oak Valley Drive, Suite 20
Ann Arbor, Michigan
USA, 48108

Toll free: (800) 959-0329
Ph: (734) 761-5001
Fax: (734) 769-1888
Website: www.GfG-Inc.com



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GfG Instrumentation

Tel: (800) 959-0329 or (734) 769-0573
Fax: (734) 769-1888
E-mail: info@gfg-inc.com
Website: www.gfg-inc.com