

AP1005:

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

February 11, 2013

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

Readings of the combustible sensor must be within minus zero to plus 20% of the concentration of combustible gas applied. If 50% LEL test gas is used readings must be no lower than 50% LEL and no higher than 60% LEL.

Readings of the CO and H₂S sensors 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.

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.

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