September 20, 2018

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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