



**GfG Instrumentation**

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Worldwide Manufacturer of Gas Detection Solutions

## Fixed Systems Calibration Guidelines

All GfG Instrumentation gas monitors are designed as safety devices for the protection of life and property and involve sensors that require periodic calibration. GfG Instrumentation recommends that calibration intervals be according to the sensor type used.

<b>Sensor Type</b>	<b>Recommended Intervals</b>
EC (electrochemical)	Quarterly
CC (catalytic combustion)	Semi-annual
IR (infrared)	Semi-annual
CS (Chemosorption)	Quarterly
CI (charge carrier injection)	Semi-annual
ZD (zirconia diode)	Semi-annual

Instruments should also be calibrated if any of the following conditions arise:

1. Last calibration exceeds the recommended calibration interval
2. Last calibration date cannot be verified or is unknown
3. Sensors overexposed to target or interfering gases
4. Instrument has been subjected to misuse or abuse
5. Sensors have been newly replaced or instrument has received any type of servicing
6. Whenever sensor response is in question

Between calibration intervals sensor response can be verified by “bump testing” the sensor with a known concentration of the target or reference test gas. The “bump test” period should last until the sensor(s) readings stabilize. Once a stable reading is obtained (within the NIST traceable tolerances of the gas) the instrument is ready for use.

Any recommendations to the contrary, except as noted by GfG in their technical literature on specified instruments, must be avoided to prevent compromising users safety.

No agent or reseller of GfG Instrumentation may alter the above statements to lessen or absolve the user of responsibility of following the above recommendations but other factors may require stricter adherence to calibration and bump test intervals.