

Gas detection system quarterly maintenance checklist

A quarterly gas detection system round is short on purpose: it catches the wear items that fail between annual services. This checklist is sized for a tech with a phone. Every item says what to look at and the photo that proves the round happened. Work is commonly verified against IMC (mechanical code), the applicable building code, manufacturer's published instructions. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The controls or mechanical tech on the quarterly round; the field observes and documents, calibration stays with the certified tech. When: Every quarter, because a sensor in a parking area or kitchen sits in dust, grease and moisture and drifts long before anyone smells the problem.

Sensors and heads

- ☐ Each sensor located, clear and mounted at the right height for its gas
Heads unobstructed and undamaged, low for heavier-than-air refrigerant, in the breathing zone for CO, none painted or wrapped. 2 photos required
- ☐ Calibration-due status read at each sensor or the panel
Sensor life and calibration-due dates within range, none expired, any past-due head flagged for the tech. 1 photo required

Controller and alarms

- ☐ Panel in normal state with no active faults
Controller powered, no trouble or fault indication, alarm setpoints displayed, event log free of unresolved alarms. 1 photo required

Ventilation interlock

- ☐ Alarm signal drives the exhaust fan and dampers
On a simulated or test alarm the exhaust fan starts and makeup-air/relief dampers move to their ventilation position, audible/visual alarms activate. 2 photos required