

Gas detection system annual maintenance checklist

The annual gas detection system service is the deep pass: the measurements, cleanings and tests a quarterly round doesn't reach. This checklist keeps the full service on record with the photos that make it defensible later. 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 service lead inspects and documents; the licensed tech performs and certifies the bump test and calibration. When: Once a year, timed with the calibration visit so the whole detection-to-ventilation chain is proven end to end while the tech is on site.

Sensor inventory and condition

- ☐ **Every sensor accounted for and matched to the panel and area served**
Field head count matches the controller, each zone still covers the space it serves, remodeled areas checked for gaps in coverage. **2 photos required**
- ☐ **Heads cleaned and inspected**
Grease, dust and moisture cleared from each head per the manufacturer, cell housings intact, no corrosion at terminals. **1 photo required**

Calibration support

- ☐ **Bump test and calibration by the tech observed and logged**
Test gas applied by the certified tech, response and setpoints recorded, sensors reading zero on clean air after calibration. **1 photo required**

Full interlock verification

- ☐ **Alarm-to-ventilation sequence proven for each zone**
Each detection zone driven to alarm confirms its exhaust fan, dampers, alarms and any shutoff respond, then returns to normal. **2 photos required**