



Aspirating Smoke Detection (ASD) Maintenance Checklist

10 planned preventive maintenance tasks · Free PDF from PM Assist

A practical starting point for planned preventive maintenance. Always refer to the manufacturer's O&M manual and site-specific requirements.

Functional Checks

- ☐ Verify airflow through each sampling pipe is within the expected range
- ☐ Check sampling pipes and holes are clear and undamaged
- ☐ Confirm detector sensitivity and alarm thresholds against design
- ☐ Carry out a smoke/transport-time test to confirm response
- ☐ Check the aspirator (fan) operation and any airflow faults
- ☐ Review the detector event and fault log
- ☐ Confirm correct signalling to the fire alarm panel
- ☐ Verify any environmental compensation and settings

Cleaning & Housekeeping

- ☐ Inspect and replace the detector filter as required

Record Keeping

- ☐ Record airflow, sensitivity, transport time, and faults in the log

Maintenance Frequency

Quarterly

- Check airflow and aspirator
- Review fault log
- Visual pipe inspection

Annually

- Replace filter and service detector
- Smoke/transport-time test
- Sensitivity and threshold verification
- Sampling pipe integrity check