



Gas Detector Selection Questionnaire

To help you determine the best gas detector for your application, Det-Tronics offers these scoping questions. By answering these questions, you will have the information you need to select your detectors. Of course, you can always speak with us for in-person assistance.

Please answer the following questions that apply to your application. They are divided into two categories; facility characteristics and operating environment.

Facility Characteristics

1. What do you do or produce at your facility? What processes are you protecting?

2. What toxic and combustible gases/vapors are present at your facility?

3. Which of these gases do you need to detect?

4. What are the detection ranges you require, based on your facility's layout?

5. What detector type(s) best serve your facility's layout?
 - Line-of-sight
 - Point
 - Acoustic

6. What do you need the detectors to do? Will they take executive action?
 - Annunciate
 - Log
 - Initiate

7. What kind of system will the detectors be connected to? (EQP, PLC, DCS, fire Panel)
 - Eagle Quantum Premier® (EQP)
 - PLC, DCS
 - Fire panel

8. Any special considerations or characteristics of your application?

9. Any issues with previous detection solutions you want to avoid?

10. Are any additional accessories used or necessary?

11. Describe the classification of the application.

Class:

Zone/Division:

Group:

Operational environment

12. Ambient temperature ranges for the application:

Minimum:	°C / °F
Maximum:	°C / °F
Normal:	°C / °F

13. Ambient humidity range for the application:

Minimum RH:	%
Maximum RH:	%
Normal RH:	%

14. Ambient barometric pressure for the application:

Minimum:	kPa / psi
Maximum:	kPa / psi
Normal:	kPa / psi

15. Wind speed/velocity for the application:

Minimum:	m/sec / ft/sec
Maximum:	m/sec / ft/sec
Normal:	m/sec / ft/sec

16. Precipitation

Minimum:	cm / in
Maximum:	cm / in
Normal:	cm / in

17. List common airborne particulates (dust, oil, smoke, fog, sand...)

18. List any potential contaminants (poisons) that may affect the performance of the detectors.

19. Any exceptional environmental conditions to be considered?