**Gas sensor (carbon dioxide, methane, etc.)**

A **gas detector** is a device that detects the presence of [gases](https://en.wikipedia.org/wiki/Gas) in an area, often as part of a [safety system](https://en.wikipedia.org/w/index.php?title=Safety_system&action=edit&redlink=1). This type of equipment is used to detect a [gas leak](https://en.wikipedia.org/wiki/Gas_leak) or other emissions and can interface with a [control system](https://en.wikipedia.org/wiki/Control_system) so a process can be automatically shut down. A gas detector can sound an alarm to operators in the area where the leak is occurring, giving them the opportunity to leave. This type of device is important because there are many gases that can be harmful to organic life, such as humans or animals.

