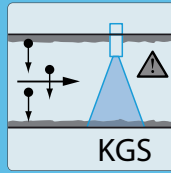


***An ounce of prevention toward preventing a pound of grease from igniting!***



KGS  
Duct Safety System

**Halton**



## KGS Duct Safety System

Duct Safety System is an innovative signaling device that monitors the duct work grease deposition levels

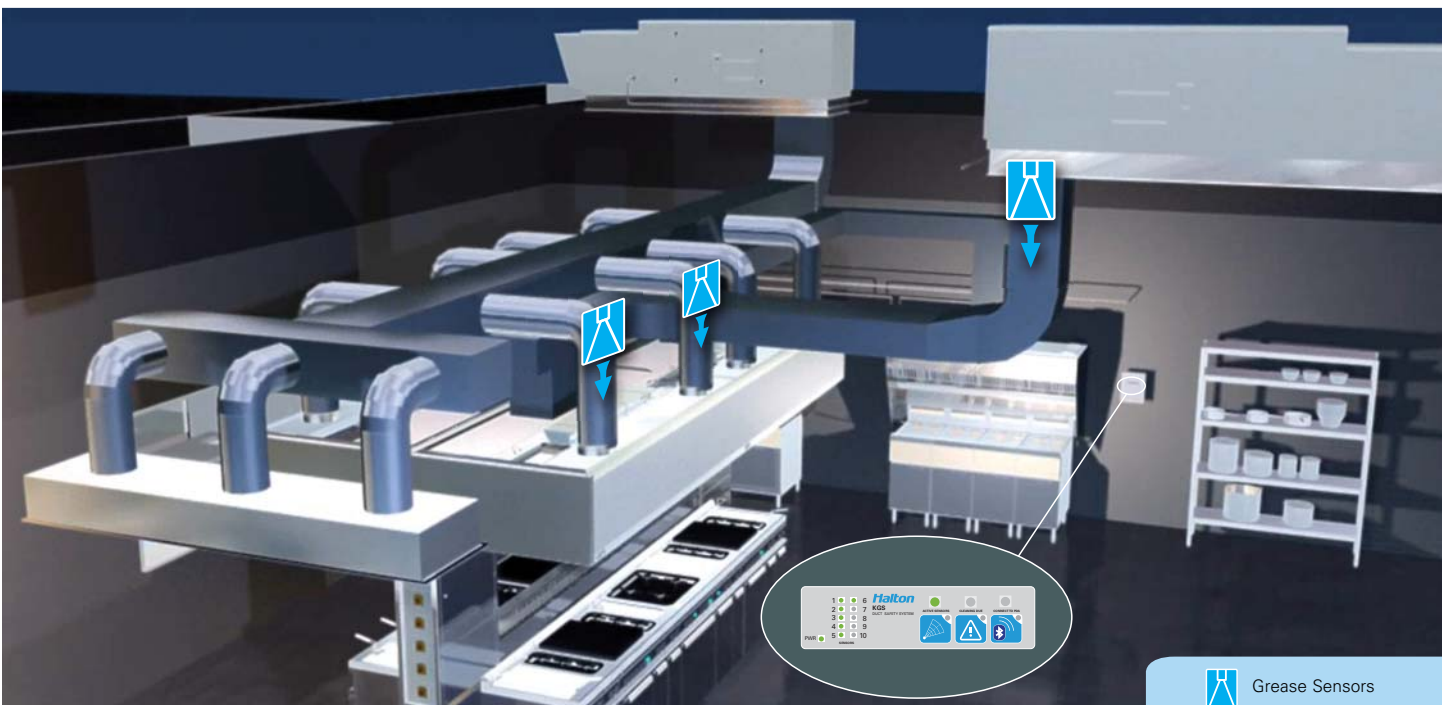
Halton's Duct Safety System is a signaling device that monitors the grease deposition levels in all ductwork. Once the level of grease exceeds the NFPA-96 threshold or a local regulation requirement, *an alarm is displayed on the user interface or a signal is sent to the Building Management System (BMS) via a "volt free" contact closure. The operator is then alerted* that the ductwork needs to be cleaned. Hence, fire safety and hygiene concerns are mitigated.

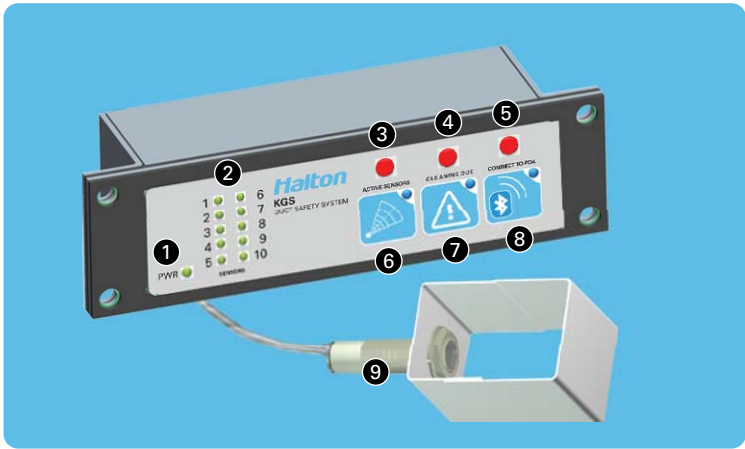
The system is based on the use of Grease Sensors, installed along the ductwork and inside the exhaust plenums of exhaust hoods which cover the heaviest cooking appliances. The innovative optical system which equips the sensors is able to determine the grease deposition level on the surface of the ductwork.

As soon as this level exceeds the system threshold, the user interface displays a visual alarm and shows which grease sensor(s) is concerned. Hence, it allows the operator to execute the cleaning operations when it is really needed and not unnecessarily by schedule. Depending on the strategy applied before the installation of a KGS system (cleaning operations too frequent or not frequent enough), the kitchen manager benefits from money savings or from a total safe activity with minimum maintenance costs.

### Halton's KGS...

- Monitors the grease deposition levels in all ductwork.
- Mitigates hygiene and fire safety concerns.
- Allows operator to clean ductwork when required by grease deposition levels, not unnecessarily by schedule.
- Compatible with new or existing exhaust ductworks.
- Optical grease sensing device not affected by ambient light.
- Ten grease sensors per system (expandable).
- Standard with M.A.R.V.E.L. system or as a standalone system.
- Optional signal sent to Building Management System (BMS) via "volt free" contact closure.
- Authorized service agents can connect to system via laptop or PDA.
- Grease sensor and reflector assemblies are UL1978 listed. Control panels are ETL listed.





### CODE DESCRIPTION

- 1 Power light (green LED)
- 2 Sensor lights (green LED)
- 3 "Active Sensor" alarm light (red LED)
- 4 "Cleaning Due" alarm light (red LED)
- 5 PDA connection light (red LED)
- 6 Active Sensor button
- 7 "Cleaning status" button
- 8 "Bluetooth port" button
- 9 Grease sensor

The controls of the KGS system are integrated inside a control panel. To simplify its installation, different models of control panels are available, completed by a remote display panel.



#### Master Control Panel with display

This control panel is stand-alone. It can handle up to 10 sensors. On its own, it is used ideally for kitchens, with a single cooking area. To simplify the wiring in complex or large

kitchens, it can be combined with a slave control panel.



#### Slave Control Panel

The slave control panel is connected to the master control panel. It allows the splitting of the sensors installed on the ductwork into two groups (maximum 5 sensors each) to simplify the wiring, depending on the kitchen configuration.



#### Master Control Panel without display

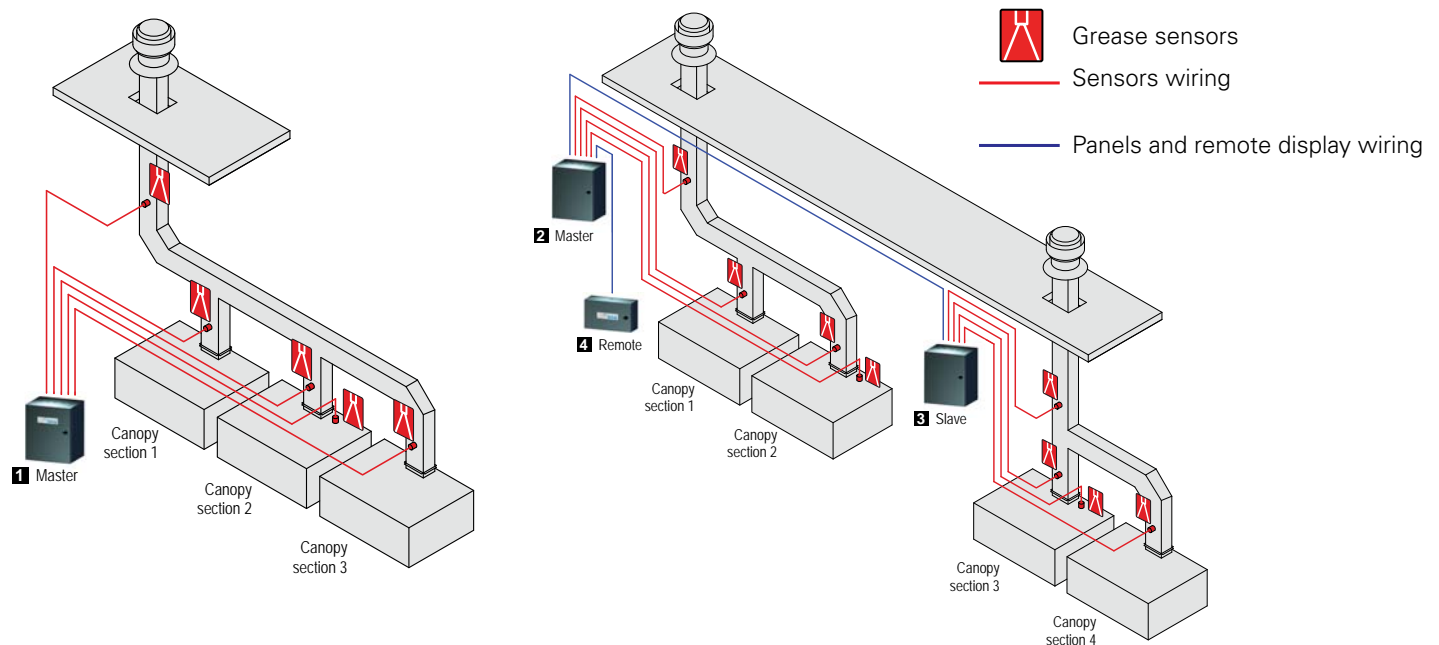
This control panel has to be combined with a remote display. It can handle up to 10 sensors. On its own, it is used ideally for kitchens with a single cooking area. To simplify

the wiring in complex or big kitchens, it can be combined with a slave control panel.



#### Remote display panel

This is used when the display needs to be in a remote location from the master control panel.



## ***Halton, Intelligent Innovation***

Halton is a family-owned company specializing in indoor climate and indoor environment products, services, and solutions. Applications range from public and commercial buildings to industry, commercial kitchen, and restaurant applications. Halton is also one of the most recognized names in indoor climate solutions for marine and offshore applications. The company's areas of expertise and product ranges cover air diffusion, air-flow management, fire safety, kitchen ventilation, air purification, and indoor environmental management.

Halton has operations in 26 countries, all over the world. Regional headquarters are located in Finland, the USA, and Malaysia.

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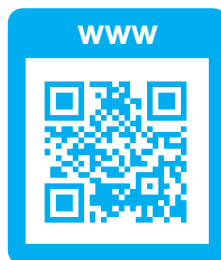
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