

# Fire protection

## AQ900 case study

### Commercial engine bay protection

#### Project

Development of EngineGuard, UK

#### Fire risk analysis

Engine fires in commercial vehicles are very damaging, often resulting in the complete loss of the vehicle. Fires can occur at any time although the most frequent occur when the engine is running. Fire fuel sources include diesel or petrol, oil, plastics and thermal insulation. Sparking, electrical faults, overheating, leaking fuel lines or static electricity can cause ignition.

#### Further information

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#### Solution

A compact version of the AQ900 was selected to deliver the extinguishing agent into the engine bay. A high efficiency Dry Chemical powder was chosen as the extinguishing agent. This product is very fast acting, and is widely used within the motor and aircraft industry for its effectiveness in the case of fuel fires.

A special thermal FireWire cable is used to detect a fire within the engine compartment and initiate the extinguishing cycle. The extinguishing cycle is self-powered and therefore independent of the vehicles power supply.

A unique feature of the EngineGuard system is the electronic pack that automatically monitors the system and alerts the driver through a VoiceAlert unit in the drivers cab. Warnings include 'engine bay temperature high' as well as other status data. The unit has been designed, so as to offer a choice of messages in any language.

**STOP  
THAT  
FIRE**