

# DIESELGUARD - DIESEL MACHINE MONITORING



The Amcontrol Dieselguard Diesel Machine Gas Monitor is a gas detection and alarm control unit that can be used to shut down the fuel supply and air intakes on diesel machines. Some versions also include machine monitoring and data acquisition systems.

The Monitor forms part of the Dieselguard Machine Gas Monitoring System. The unit is designed as a component approved device and can be used with Intrinsically Safe and 'simple apparatus' accessories such as gas transmitters, RTDs, pressure and level switches, LED indicators, Solenoid valves and Intrinsically Safe display systems.

The system is designed for simple operation comprising of a 'start' switch input which energises the gas detection system for two minutes from its own back-up battery.

During these two minutes, normal starting procedures can be followed if the gas level is acceptable after a 20 second test.

The Monitor is a blind unit that can be mounted in any convenient position. The gas sensor (Gasguard) would normally be mounted near the front of the vehicle or by the air intake. A robust 3 digital display (IDA) or LED status panel indicates the status of the system for the driver.

The IDA display is activated when the 'start' contact operates and flashes for 20 seconds while the gas sensor stabilises. A continuous display indicating the gas level follows.

In the event that gas levels exceed the set limits, the solenoid valve that controls the vehicle safety circuit is not energised and the monitoring system will shutdown after a two minute period.

While the engine is running, the monitor will stay in operation. If the gas level exceeds the alarm level, the solenoid de-pressurises

## FEATURES

- On fully specified units, logged data can be downloaded by a microwave radio signal when the vehicle is within a 50m range of the refuelling centre
- No field adjustments required
- IP66 sealed enclosure
- IS output to safety loop pressure release solenoid
- Component IS approval Ex m (ia) I
- Vehicle ID selection
- Gas warning and trip alarms
- Manual or automatic start input
- RTD, switch, proximity inputs
- Hours run logging

the control circuit, closing the fuel supply line. Once the engine is stopped, the Gas detection system operates for two minutes before going to 'sleep'.

A deputy override switch input is provided so that the vehicle can be moved under supervision in an emergency.

A reset function can be selected requiring the operation of a reset switch to reset the system once the trip level has been exceeded.



1300 267 373

amcontrolgroup.com

