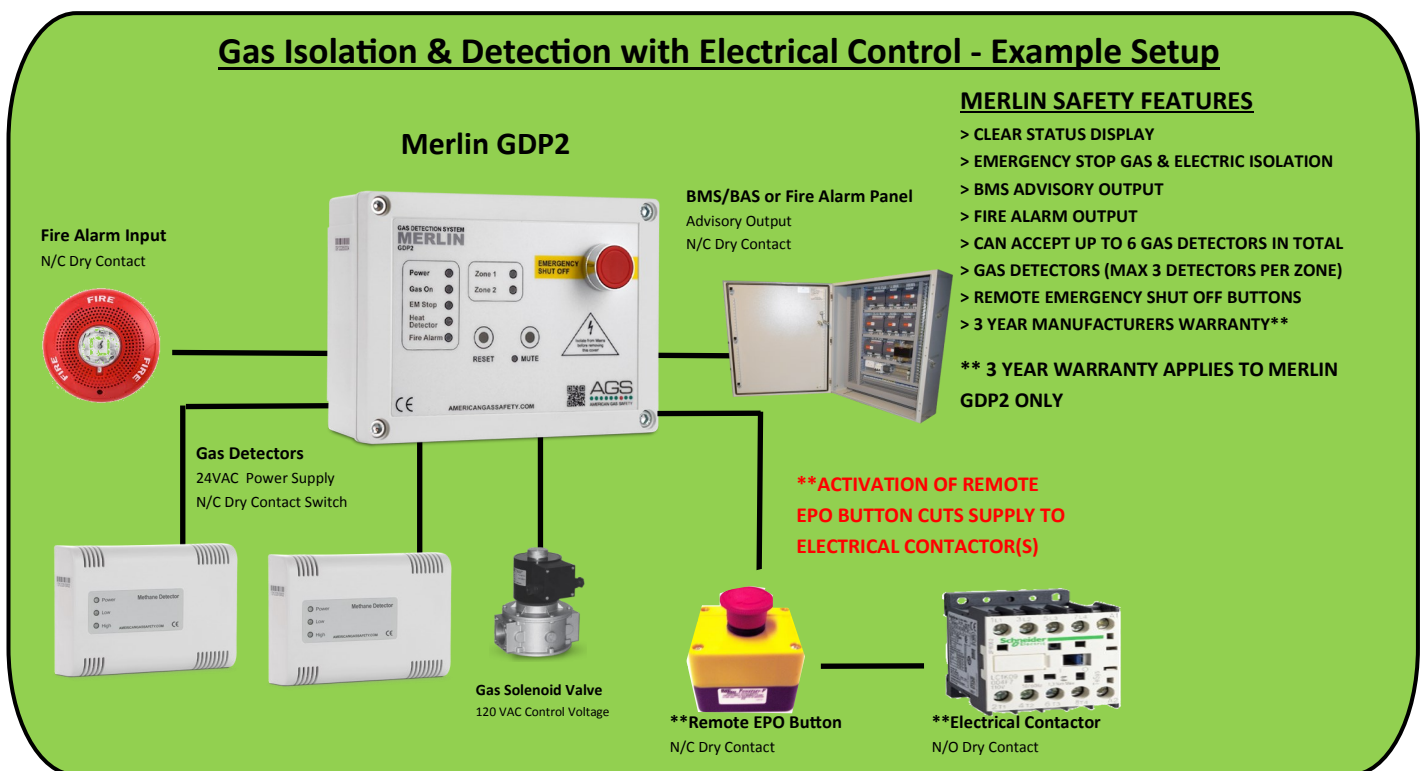# Boiler Room Safety Solution

Gas Detection System Incorporating Built-in Connectivity to BMS and Fire Alarm systems with utility isolation. Remote EPO button controls electrical contactors.

AGS manufacture safety systems that meet and exceed the most rigorous standards for gas detection and isolation. This solution is ideal for boiler rooms that requires gas detection and utility isolation with the addition of controlling the electrics within the room.

The Merlin GDP2 provides management control over the connected utilities, remote emergency shut-off buttons, boiler heat detectors & fire alarms. Relay outputs can be used to advise the building management that an emergency has occurred or be used to communicate directly with the BMS / BAS.

The Merlin GDP2 can accept up to 6 gas detectors, the most common types in a boiler room application are natural gas, carbon monoxide or lpg. The system can also be equipped with additional audible alarm beacons which activate in the event of an emergency i.e. gas detected.

Below is example of our boiler room solution for projects which require gas detection & utility isolation. For further information please contact American Gas Safety or your local representative.

Gas Isolation & Detection with Electrical Control - Example Setup

Merlin GDP2

Fire Alarm Input
N/C Dry Contact

BMS/BAS or Fire Alarm Panel
Advisory Output
N/C Dry Contact

MERLIN SAFETY FEATURES
> CLEAR STATUS DISPLAY
> EMERGENCY STOP GAS & ELECTRIC ISOLATION
> BMS ADVISORY OUTPUT
> FIRE ALARM OUTPUT
> CAN ACCEPT UP TO 6 GAS DETECTORS IN TOTAL
> GAS DETECTORS (MAX 3 DETECTORS PER ZONE)
> REMOTE EMERGENCY SHUT OFF BUTTONS
> 3 YEAR MANUFACTURERS WARRANTY**

** 3 YEAR WARRANTY APPLIES TO MERLIN GDP2 ONLY

Gas Detectors
24VAC Power Supply
N/C Dry Contact Switch

**ACTIVATION OF REMOTE EPO BUTTON CUTS SUPPLY TO ELECTRICAL CONTACTOR(S)

Gas Solenoid Valve
120 VAC Control Voltage

**Remote EPO Button
N/C Dry Contact

**Electrical Contactor
N/O Dry Contact

Gas Safety Systems   **Utility Control**