



Model GSM-12

Emergency Shutdown System Controller

Description

The GSM-12 Electronic Shutdown System is designed to provide the ultimate in safety when using flammable, toxic or reactive gases.

The GSM-12 consists of an electronic control station, a system of sensors that read various conditions and solenoid valves which activate up to two pneumatic valves in the gas system, which are typically installed at the inlet to the process gas manifold. The controller is programmed to monitor a large number of sensors and will automatically alarm, or alarm and shutdown, if a particular condition warrants an action. The controller also has an **ABORT** button on the front panel for manual shutdown. The specific sensor shutdown conditions are programmed into the system at the factory. Delay times between when a fault condition is first sensed and when an actual shutdown or alarm occurs, have been programmed to avoid any nuisance alarm tripping. Typical sensors offered with this system are listed below.



Typical Sensors used with GSM-12

- High Delivery Pressure
- Excess Flow
- Exhaust Failure
- Low Cylinder Contents (by pressure or weight)
- Process Line Containment
- Gas Detector Warning
- Gas Detector Alarm
- Fire Detector
- Remote Start
- Remote Shutdown

All of these sensors are available through Matheson, and are ordered separately.

Ordering Information

Model	Description
GSM-12	ESO Controller
FF4384C	Air Actuated Valve (1/4" NPT Female Inlet & Outlet)

Options

Exhaust pressure switch
Excess Flow sensor
Fire detection sensors
Gas sensors/detectors for various gases
Gas pressure sensors & cylinder scales
Gas cabinets (1, 2 and 3 cylinder capacity)
Gas distribution manifolds and switchover systems