

AUTOMATION INDIA

An ISO 9001 : 2015 Company

Manufacturer of Safety Equipment Mining & Industrial

Dist.-Ramgarh, (Jharkhand) - 829122

Mob. : 8917218270, 9238249191 E-mail : automationindiainfo@gmail.com



"Equisafe"

AUTOMATIC FIRE DETECTION & SUPPRESSION SYSTEM

" **Equisafe** " Automatic Fire Detection and Suppression System (AFDSS), specially designed for Heavy Earth Moving Mining Equipments (HEMM) , Surface Transportation Vehicles, Buses, Van's, Oil Room's & other applications .

" **Equisafe** " : It is designed to use in Dusty, Humid and Variable Temperature Conditions. Apart from Standard Models, These systems can be designed as per the customer requirement, to protect both man and machine. This is Cost Effective & Reliable solution for Automatic Fire Detection and Suppression needs.

This system handles all class of fire: **Class A** (Wood, Paper, and Rags etc.), **Class B** (Flammable Liquids & Gases) and **Class C** (Energized Electrical Equipment) fire.

It is designed in such a manner, so that its coverage area and capability can be increased as per need. The capacity of system starts from one cylinder of 10 Kg. of dry chemical powder along with four numbers of nozzles. The same system can be enlarged by providing more number of cylinders of same capacity or using cylinders of high capacity (20 Kg.) Similarly numbers of nozzles can be increased to 6, 8,10,12 or more to cover larger area. System works automatically, pneumatically as well as manually.

" **Equisafe** ", **Automatic Fire Detection and Suppression System Consists of :**

Control Panel , Linear Heat Sensing Cable, ABC Cylinders, Delivery System, Cartridges, Electrical Harness, Spray System N2 Pressure Assy. & Other Parts.

How " Equisafe " works:

Automatic Operation Option : At the time of fire, the temperature rises & the LHS cable detects the fire and gives signal to the control panel. The control panel starts giving visual signal on control panel & alarm to alert driver and the personnel in the surrounding area. After few second it energizes the electromechanical actuator which puncture rupture disc located in expellant cartridge valve. From expellant cartridge pressurized gas, Carbon Dioxide enters into main cylinder which is filled with fire extinguisher agent. Expellant gas fluidizes fire extinguishing agent and it flows through distribution system to fixed nozzles and on fire area and fire gets suppressed.

Manually Operation Option : In the event of fire, Vehicle Driver can also activate system manually. (1) By operating directly electromechanical actuator through separate switch provided in control panel or (2) By knob provided a) on the electromechanical actuator b) on pilot cartridge assembly located on the ground floor near stairs. After this it will work same as the Automatic Operation Option.

Once the system is activated and put into use, the Cylinder & Cartridge are required to be refilled to the maximum capacity & optimum pressure. This is more essential to provide guaranteed & dependable service in future.