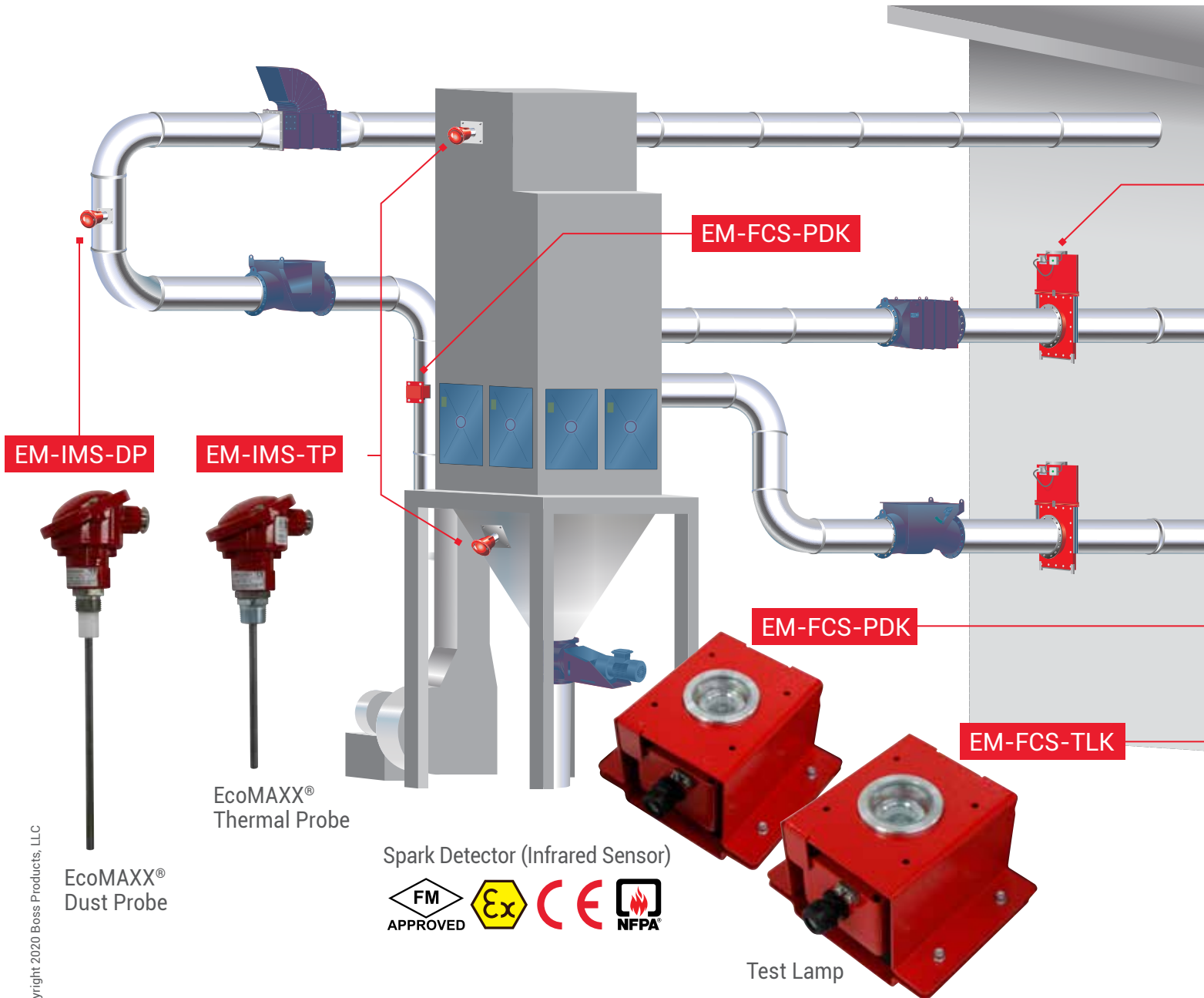


Spark Detection and Extinguishing System EM-FCS

APPLICATIONS

The **EcoMAXX® Spark Detection and Extinguishing System** is an **FM APPROVED** safety device that is designed to detect and extinguish sparks and glowing embers that are traveling through a duct system. The hazard is detected by infrared sensors and extinguished with water spray nozzles within milliseconds of detection.

The **High Power EcoMAXX®** control module has the capacity to receive hazard alert signals from multiple components (Dust Probes & Thermal Probes) and monitor multiple duct-zones and vessels. The **EcoMAXX® Spark Detection and Extinguishing System** is an essential Explosion Protection, Fire Isolation and Diversion device



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EcoMAXX®
Dust Probe

EcoMAXX®
Thermal Probe

Spark Detector (Infrared Sensor)



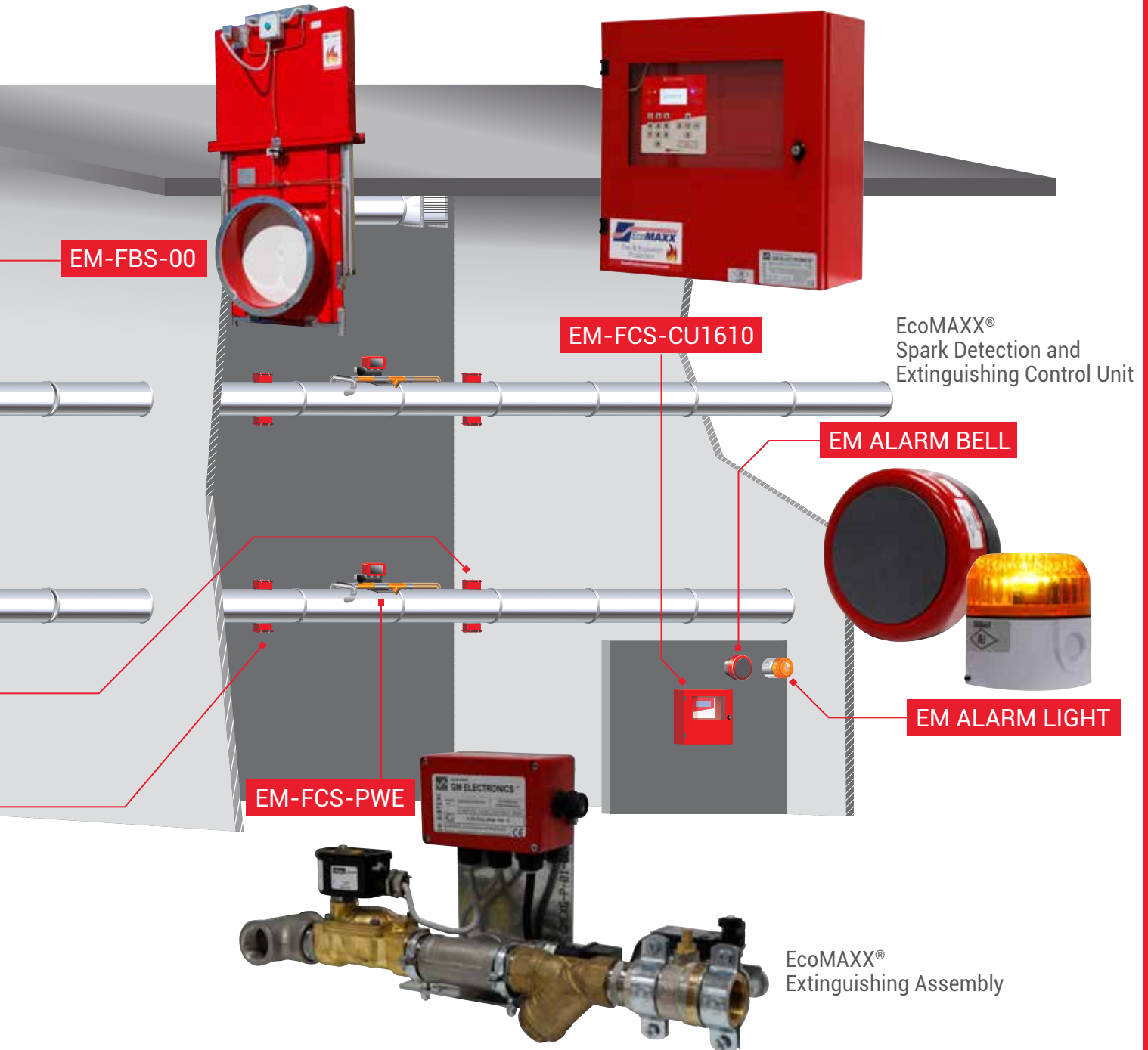
Test Lamp



PRODUCT CODES: 56501, 56502, 56503 & 56504

that is commonly installed with EcoMAXX® High Speed Abort Gates, FireBreak Shutters, EcoMAXX®/VigilEX Explosion Vents and explosion certified EcoMAXX®/

VDL Rotary Valves. Typical automatic functions include hazard detection, system shut-down, isolation/abort, and extinguish and/or suppression.



Spark Detection and Extinguishing EM-FCS

APPLICATIONS

EM-FCS EcoMAXX® Spark Detection & Extinguishing Control Module

The EcoMAXX® Spark Detection & Extinguishing Control Module is designed to minimize the risk of fire and explosion in dust filtration and pneumatic conveying systems. This Control Module communicates with a variety of EcoMAXX® Components to monitor and protect up to five individual zones.



EM-FCS-EXT01 EcoMAXX® Extinguishing Assembly

The EcoMAXX® FM Approved Extinguishing Assembly is designed to work in conjunction with the EM-FCS Control Module and EM-FCS-SD Spark Detectors. When the control module gets a signal that a hazard has been detected, the extinguishing assembly is activated. A water spray is initiated inside the piping system to extinguish sparks or glowing embers that could cause fire or explosion.



EM-IMS-DP EcoMAXX® Dust Probe

The EcoMAXX® Dust Probe (Broken Bag Detector) is designed to monitor particulate concentration in filtration clean air plenums and return air ducting. If contamination is detected a signal will be sent to the control module that will initiate any combination of visible/audio alarms and system shut-down.



EM-FCS-TP EcoMAXX® Thermal Probe

The EcoMAXX® Thermal Probe is designed to detect potential fire and explosion hazards in a dust collector or vessel. Multiple thermal probes are often designed into a single air handling system, providing protection for potential hazards at several locations. The EcoMAXX® control module will recognize a rapid rise in temperature, detect a temperature threshold and initiate appropriate mitigation, including extinguishment, isolation and system shutdown.





PRODUCT CODES: 56501, 56502, 56503 & 56504

EM-FCS-SD EcoMAXX® Spark Detector (Infrared Sensor)

The **EcoMAXX® Spark Detector** was designed to work with the EM-FCS-CU1610 Control unit. The Spark Detector is used to detect sparks and glowing embers in systems containing combustible materials.



EM-FCS-TL EcoMAXX® Test Lamp

The **EcoMAXX® Test Lamp** was designed to work in association with the **EM-FCS-SD Spark Detectors**. The **Test Lamp** provides a function check to ensure the cleanliness of the **Spark Detector** lenses by emitting an **LED light** into ducting or pneumatic conveying lines across from the spark detectors to simulate a spark or glowing ember in the line.



EM-FBS-00 EcoMAXX® Firebreak Shutter

The **EcoMAXX® FireBreak Shutters** are engineered to isolate fires and fire hazards in process ventilation and dust collection applications. The Fire Break Shutter can be activated by the EM-FCS-CU1610 Control Unit via Spark Detection or sensing activation by Thermal Probe.



CERTIFICATIONS & STANDARDS

Models P and MA

ATEX EN 1366-2, EN 13501

CSI 1643FR, REI 120-RE 120

CE



STANDARD FEATURES

- Output for Pre-Alarm
- Output for Alarm
- 4-20mA proportional output
- Bus RS485
- IP65 Enclosure

OPTIONAL FEATURES

- Magnetic
- Pneumatic
- Fusible Link