

FIKE *EPACO*™

ACTIVE EXPLOSION PROTECTION

WE'RE TAKING
EXPLOSION
PROTECTION
TO A NEW LEVEL
OF **SIMPLICITY.**

EPACO™



Fike®
CORPORATION

INTRODUCING **EPACO**.™

THE WORLD'S EASIEST, ACTIVE EXPLOSION-PROTECTION SYSTEM.



WHY SHOULD YOU CHOOSE AN ACTIVE SYSTEM?

Explosion Venting is the “passive” form of explosion protection. A vent simply allows a controlled release of the pressure created by a deflagration. A passive system is typically used when your equipment is located outside, close to an outdoor wall or when your process materials or explosion products are non-toxic.

Fike's new **EPACO** is an “active” system. **EPACO** detects a rise in pressure long before it reaches an explosive level, then takes all the necessary measures to prevent an explosion from ever occurring. Unlike venting, our new **EPACO** poses no danger to your employees, assets or the environment.

YOUR FACILITY MAY BENEFIT FROM AN **EPACO** SYSTEM IF:

- Your equipment is situated in an occupied area where employees may be at risk.
- Your process media or explosion products have a toxicity level that is considered harmful to the environment.
- Your equipment is located indoors and too far from an external wall to make venting feasible.
- Your application is positioned indoors and the required venting area is larger than the vessel can accommodate.
- You require precise data about the time, cause and location of problems within your process for quality control and insurance purposes.

Only from Fike Corporation

Before we designed our new **EPACO**™ System, we asked clients like you exactly what they wanted in active explosion protection. The response was unanimous: make a system that's easy to operate. So we did. **EPACO** (Explosion Protection Active Controlled Operation) makes protecting your facility easier than ever before with the following innovative design features:



Modular Design



Plug & Play



Install & Forget



Small Size



Global Compatibility



Modular Design

Instead of one big box that's supposed to work for all clients, our new **EPACO** System is comprised of five pre-configured modules that can be integrated in different ways to create your perfect network. Our modular design allows you to start small, protecting just one zone. Then you can extend the system to other areas as your time and budget allow.

Plug & Play

Fike's **EPACO** System is pre-configured with a variety of standard set-ups based on what we've learned about your industry over the years. Instead of spending hours programming, just flip a DIPswitch to choose the appropriate configuration for your application. Should you need advanced configurations for a more specialized application, the experts at Fike can help you.

Install & Forget

Installing Fike's new **EPACO** System is easier than any other control and detection system currently on the market. You don't have to invest in parts you don't need. You don't have to spend hours programming. You don't have to mess with roll after roll of cable. And once **EPACO** is up and running, you can sit back and relax. Your personnel will have all the information they need to control any situation.

Small Size

There's absolutely no redesign necessary to make the transition to Fike's **EPACO** System. Our new components are small enough to fit into your existing panels in the control room and at the machinery. And they're compatible with your current Fike explosion protection equipment.

Globally Compatible

Imagine finding one explosion protection system that works for all your facilities all over the world. Fike's new **EPACO** System does just that. It requires absolutely no adapters and complies with all global requirements and approvals.



OUR BUILDING BLOCKS GIVE YOU **TOTAL FLEXIBILITY**



Fike's new EPACO System is made up of five basic modules.

Choose just one or a combination of our innovative components to create the right protection system for your unique safety requirements:



Explosion Protection Controller (EPC)

- Operates as stand-alone unit
- High-speed remote fire bus
- Multiple hazard protection
- Pre/Post activation pressure history
- Status/Event history



Power Supply Unit (PSU)

- Powers up to 4 EPCs, 4 Relay Cards and 1 Annunciator Module
- 6A-input, 5 switchable outputs, short-circuit protected
- Battery backup as added safety during power outage



Relay Card (RC8)

- 8 relays on each card
- 8 separate functions, such as pressure warning, system status, etc.



Annunciator Module (AM)

- 3x7 LED display
- Can turn on or off individual EPCs
- Real-time pressure reading
- History retrieval function



Ceramic Detector

- Ceramic element technology
- Virtually invulnerable to damage and false activation
- Dynamic and threshold functionality

Each of our **EPACO** modules offers a totally unique function, yet all modules share the following important similarities:

Easy to Install

- You can mount our modules on a DIN-rail.
- You can install our modules directly at the protected equipment and/or in the control room.

Compatible

- You can integrate our modules with new or existing Fike isolation and suppression components.
- You can use your existing power supply or Fike's PSU.
- You can operate our modules anywhere in the world because they feature dual-voltage transformers.

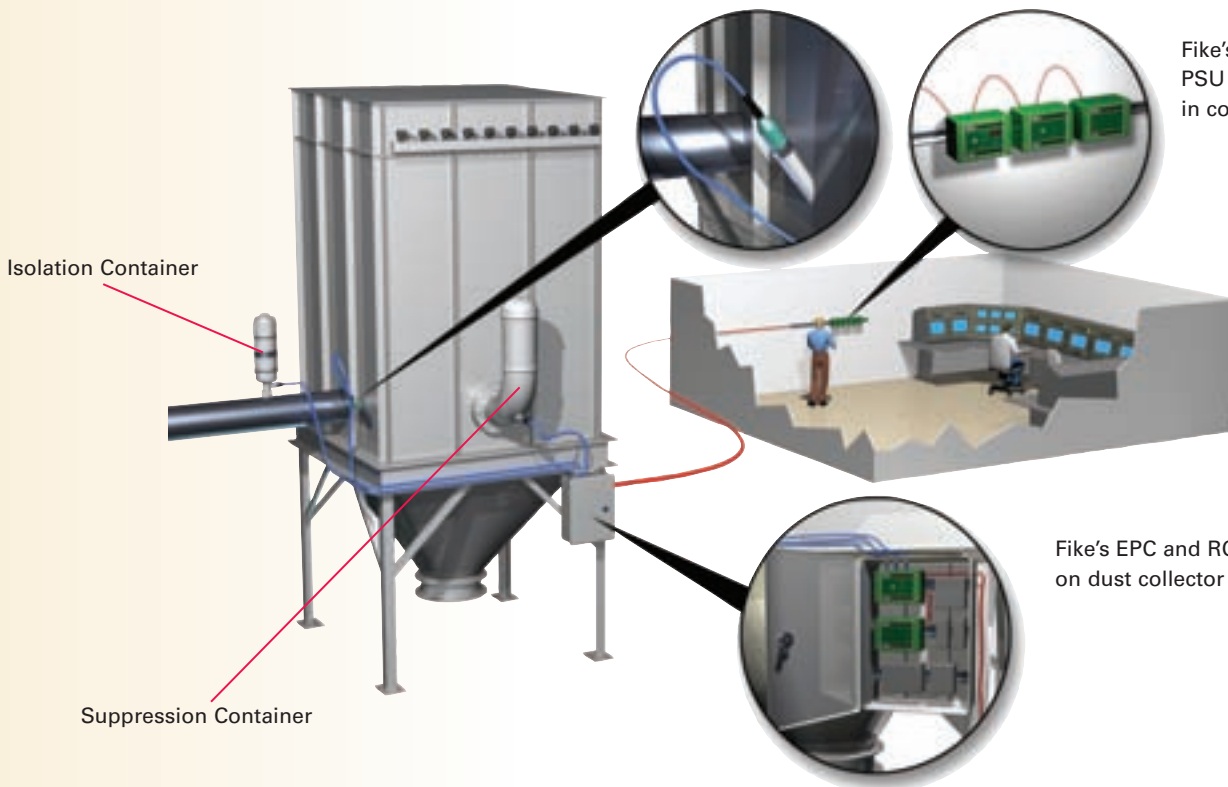
Programmable

- You can easily program each module via DIPswitch configuration.
- You can create expanded programming via PC with Fike's EPWorks™.

Fike's Ceramic Detector Module installed directly on dust collector.

Fike's AM, RC8 and PSU installed on DIN-rail in control room.

Fike's EPC and RC8 installed directly on dust collector in control room.



Our **EPACO** modules are highlighted here in green for illustrative purposes only. The actual modules are gray in color.

FINALLY, ADVANCED SAFETY TECHNOLOGY THAT REALLY WORKS.

EPACO Trouble-Shoots For You.

Fike's new **EPACO** is a sophisticated detection and control system that's pre-configured to recognize danger signs within your process. It makes important decisions about when to activate Fike Explosion Isolation and Suppression Systems to prevent an explosion from damaging your equipment or propagating to another piece of equipment. It can even "talk" to your machinery, telling them to slow down or shut down in emergency situations.

EPACO Keeps the Record Straight.

Our new interactive system architecture allows you to access real-time information from virtually every point within your production process. **EPACO** not only tells you where the trouble is, it also tells you what the problem is and when it happened. As you can imagine, this detailed information can help your personnel prevent explosions and provide you with a complete history of problems for insurance purposes.

EPACO Puts You in Complete Control.

With Fike's **EPACO** in place, your employees don't have to walk around your facility searching for signs of a problem.

With a Fike Ceramic Detector at the machinery and an Annunciator Module in the control room, your staff can be pre-warned of any rise in pressure throughout your entire process, allowing them to take action before a disaster occurs.

EPACO Has Been Well Researched.

For years, we've solved safety problems for industrial and business sector clients throughout the world. Through our vast experience and countless large-scale Explosion Protection tests, we have determined the appropriate pre-configurations for **EPACO**. No matter how demanding your application, we can identify your risks and deliver the right combination of **EPACO** modules.

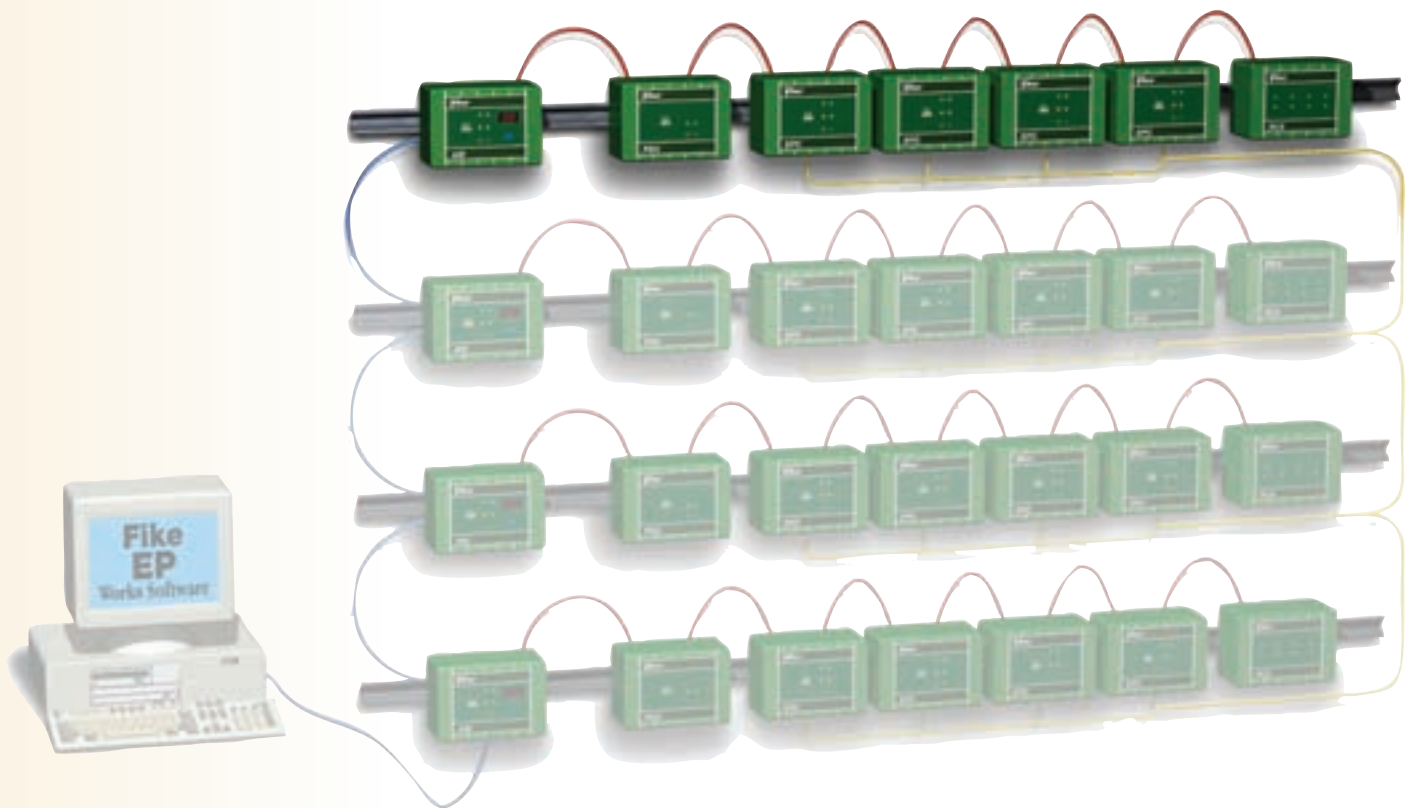
EPACO is Ready for You.

Now that you've been introduced to the easiest, active explosion-protection system in the world, it's time for you to contact Fike. Our knowledgeable representatives are anxious to demonstrate the many technological advantages of our innovative, new **EPACO** System.



HOW TO PLAY WITH OUR BLOCKS

There are endless ways to configure Fike's new **EPACO** modules.
Each network has the capacity to handle 16 EPCs, 16 RC8s, 4 PSUs and 4 AMs.
Here is one example of an effective **EPACO** network configuration:



- Local Bus
- Remote Fire Bus
- Annunciator Bus

EPACO

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