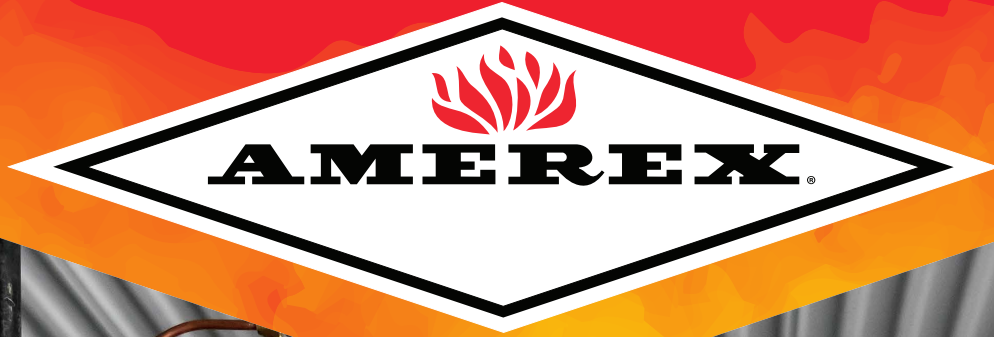


# INDUSTRIAL FIRE SUPPRESSION SYSTEM



Quality is Behind the Diamond®



## INDUSTRIAL FIRE SUPPRESSION SYSTEMS FROM AMEREX

Since its founding in 1971, Amerex has been committed to protecting people and property through quality, service, and innovation.  
**Quality is Behind the Diamond®**—in every product.



At Amerex, we work together to make sure that we're delivering the best products available. We know that a reliable fire suppression system is crucial to safe spray booth and other industrial operations. That's why we conduct quality audits at every stage—from production through shipping—before leaving the warehouse. Our commitment to quality doesn't end there. We offer certified product training for our industrial systems and provide a variety of educational materials. The Amerex customer success and engineering teams are available to provide ongoing support whenever it's needed.

**DESIGNED AND  
MANUFACTURED  
IN THE USA**



**For more detailed product and ordering information,  
visit [webstore.amerex-fire.com](http://webstore.amerex-fire.com).**

Longer life, lower cost, and the best warranty in  
the industry—that's quality behind the diamond.



All Amerex Industrial Suppression Systems comply with the recommendations of the **National Fire Protection Association** and are tested and rated by **Underwriters Laboratories** to **UL Standards**.

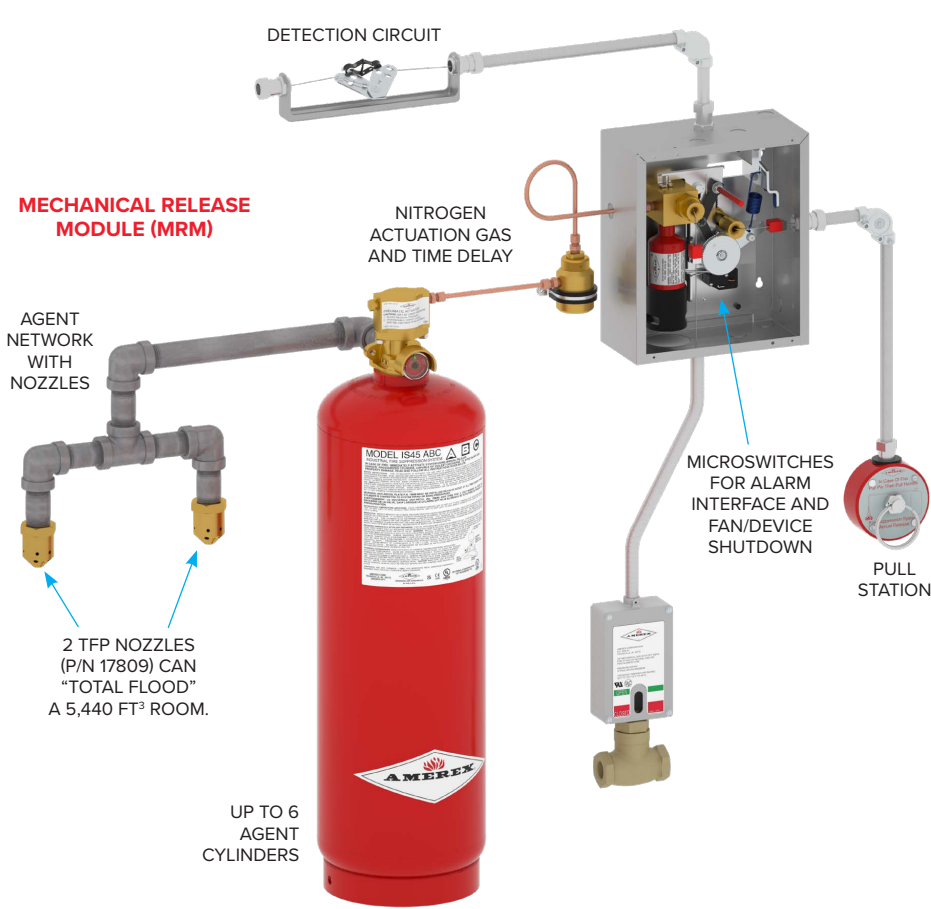
## FEATURES & BENEFITS

- Total Flood Perimeter (TFP) nozzle allows for time and cost savings
- Crane Slot Protection for Open Front Paint Booths
- Highest Open Front Paint Booth Coverage in the industry at 18' 6"
- Protection of limited finishing work stations
- Tested and listed to the UL1254 Standard and complies with NFPA 17, 30, and 33
- Quick response detection offers increased detector spacing
- PRM Detection Tubing can be easily installed in tight places where conduit will not fit
- Smaller tanks are more versatile and easier to mount
- Can protect the most common vehicle paint spray booths with only 2 nozzles (known as the 2-nozzle system)
- No water containment required

***Fires*** can  
start at ***any time.***

***That's why Amerex offers  
both AUTOMATIC DETECTION  
and MANUAL ACTIVATION to  
keep watch over your critical  
business assets ... even when  
no one is there.***

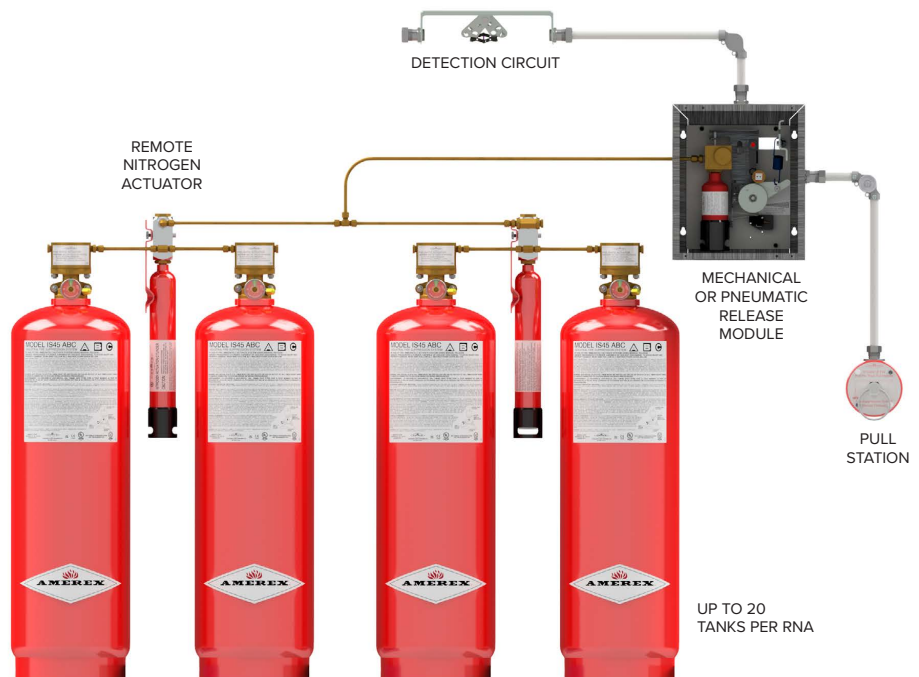
# INDUSTRIAL SYSTEM OVERVIEW



The **Mechanical Release Module (MRM)** and **Pneumatic Release Module (PRM)** systems utilize link-based detection or pressurized tubing to detect a fire. Both detection types then mechanically release a puncture pin into a pressurized nitrogen cylinder. The pressure travels through the actuation line and opens the valves on the top of the pressurized agent cylinder. Once activated, the ABC agent travels through the agent network and out the nozzles to extinguish the fire. The system can also be activated by manually pulling a manual pull station. Both MRM and PRM systems can connect to gas valves and utilize microswitches to trip electrical appliances or trigger alarms in fire alarm control panels.



The *Remote Nitrogen Actuator (RNA)* can be used to enable a MRM/PRM system to actuate more than six agent cylinders with a single nitrogen cartridge. Each RNA can release an additional 20 cylinders. Large Vehicle Paint Spray Booths or other applications can be protected by up to 40 IS agent cylinders. A Mechanical Time Delay can be added for applications that require it.



# 2 CONTROL OPTIONS

MULTIPLE DETECTION AND CONTROL OPTIONS ARE DESIGNED TO SUIT YOUR NEEDS.

## 1

### MECHANICAL RELEASE MODULE (MRM)

#### DETECTION & COVERAGE

The **Mechanical Release Module (MRM)** features a spring-loaded mechanical design compatible with **K-Links** or **JOB® Quick Response Links** for detection. A 48-lb tension spring supports **up to 200 feet of detection line** using as many as **30 detectors and 30 corner pulleys**, making it well suited for larger system configurations.

#### OPERATION & INTERFACES

The MRM uses a mechanical input to provide **electrical, mechanical, or pneumatic outputs** and serves as the central control for system actuation. It interfaces with **manual pull station(s)**, detection components, actuation cylinders, mechanical gas valves, snap-action switches, and agent cylinder discharge valves. Two snap-action switches are included; one for electrical signaling, power shutdowns, and auxiliary functions, and a second alarm-initiating switch for connection to a fire alarm control panel.

#### ENCLOSURE & CAPACITY

The Amerex MRM can actuate **up to six agent cylinders** using a single nitrogen actuation cylinder. It comes preinstalled in a **stainless-steel enclosure** featuring a system status indicator and a viewing window for nitrogen pressure monitoring. Amerex systems easily interface with fuel

shutoffs, ventilation shutdowns, and fire alarm or building control systems.



## 2

### PNEUMATIC RELEASE MODULE (PRM)

#### DETECTION & COVERAGE

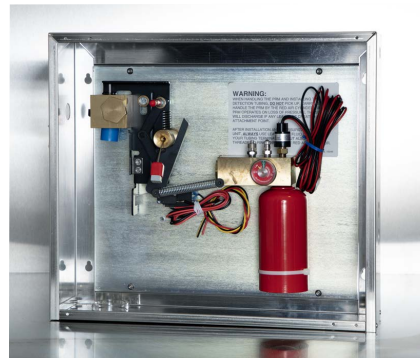
The **Pneumatic Release Module (PRM)** uses **continuous linear pneumatic detection** to provide fast, uniform response across the protected hazard. The system supports **up to 300 feet of detection tubing**, making it well suited for large or complex industrial applications.

#### OPERATION & INTERFACES

When excessive heat causes the detection tubing to rupture, pressure is released from the tubing and accumulator, actuating system discharge via a nitrogen cylinder. The PRM interfaces with **mechanical manual pull station(s)**, actuation networks, and **mechanical gas valves**, and provides electrical contacts for equipment shutdown and auxiliary functions. A **low-pressure switch** is included for connection to a fire alarm panel or optional indicator.

#### INSTALLATION & CAPACITY

Installation is simplified with **no cable, crimps, conduit, or corner pulleys required on the detection network**. The Amerex PRM can actuate **up to ten agent cylinders** using a single nitrogen actuation cylinder. Each PRM is supplied complete with a stainless steel enclosure, accumulator cylinder, end-of-line fitting, and snap-action switches.



# TYPES OF COVERAGE



## LOCAL APPLICATION—Tankside

Amerex provides local application—overhead or tankside protection using the Amerex IS Fire Suppression System. Protection is available for a wide range of applications such as dip tanks, power generators, transformers, quench tanks, or solvent tanks. The dry chemical agent is dispersed from the side or above the hazard area.



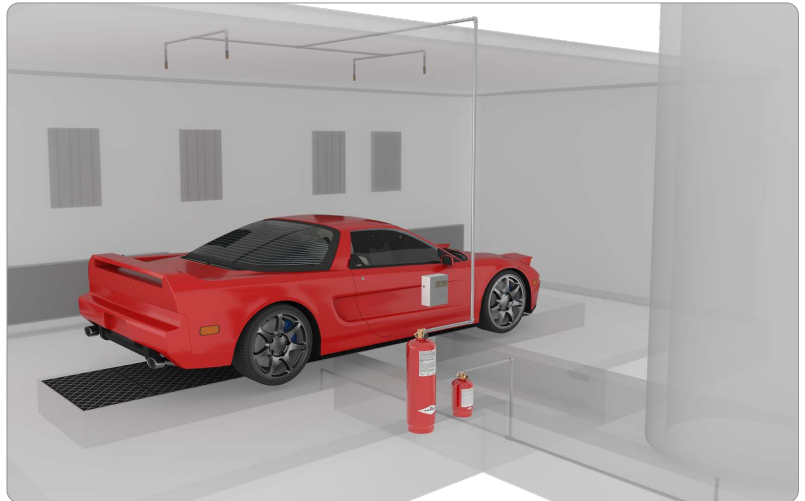
## TOTAL FLOOD

The Amerex IS Fire Suppression System also provides total flood protection which fills the enclosure with agent to protect the hazard within that volume. Total Flood applications require a fixed enclosure to be present around the hazard, such as a storage container, room or similar enclosure. Total flood protection is designed for enclosures with no more than 5% uncloseable openings.



## OPEN FRONT PAINT SPRAY BOOTH (OFPSB)

The OFPSB consists of a work area separated by a filter bank and an exhaust duct. The Amerex IS Fire Suppression System coverage is a first in the industry offering protection for an OFPSB with a height of up to 18' 6"—far exceeding the capabilities of other manufacturers, including the allowance of the Crane Slot openings in the ceiling of the booth.



## VEHICLE PAINT SPRAY BOOTH (VPSB)

Amerex IS Fire Suppression Systems have the best VPSB coverages on the market. The system protects a closed structure used for spray painting vehicles. There are numerous paint spray booths designs which can be protected with an Amerex IS Fire Suppression System. Amerex has the most efficient and economical fire protection available for VSPBs. A single Total Flood Perimeter (TFP) nozzle protects up to 2,720 ft<sup>3</sup>, larger than any other manufacturer. Amerex also offers a variety of nozzle configurations—whether you are using TFP protection or standard protection.

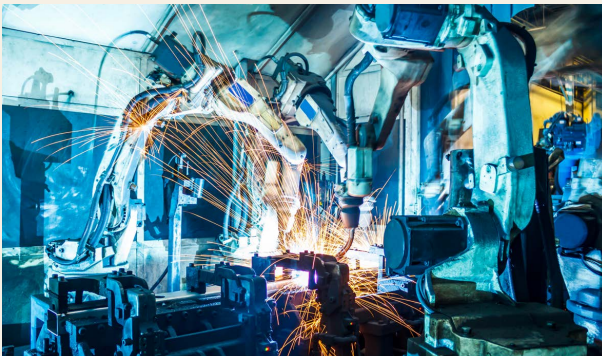
# INDUSTRY APPLICATIONS



**AUTOMOTIVE REPAIR**



**INDUSTRIAL FLAMMABLE LIQUID STORAGE**



**MANUFACTURING**



**WET PAINT SPRAY OPERATIONS**



**OIL AND GAS**



**PETROCHEMICAL**



**Quality is Behind the Diamond®**

# why AMEREX?

## INNOVATION

Because Amerex is independently owned and forward thinking, we are continuously innovating and investing for the benefit of our customers and those they serve.

## QUALITY

Amerex didn't become a global market leader overnight. Our business has grown year after year based on our products' reputation for performance and durability in even the most rugged environments.

## SERVICE

Amerex was founded on a mutual appreciation for premium quality in products and customer service and the importance of interpersonal relations.



**Quality is Behind the Diamond®**

7595 Gadsden Hwy. P.O. Box 81 Trussville, AL 35173 Ph: (205) 655-3271  
[www.amerex-fire.com](http://www.amerex-fire.com) [webstore.amerex-fire.com](http://webstore.amerex-fire.com) [customer.service@amerex-fire.com](mailto:customer.service@amerex-fire.com) [intl.sales@amerex-fire.com](mailto:intl.sales@amerex-fire.com)



Amerex Fire Protection



@Amerex Corporation



@Amerex Corporation



@Amerex Corp



@Amerex Corporation



Amerex