DET-TRONICS

What is a "listed system" and why is it important?

Many codes and standards require that fire alarm systems be "listed" by a Nationally Recognized Testing Laboratory (NRTL). Complying with these codes is the basis for good engineering practices and ultimately supports fire prevention and protection.

A fire alarm system must be listed by a NRTL, such as FM Approvals. A product or system's listing status should be clearly stated on product labeling and will be included in the NRTL's listed product guide. A listed system has been designed and third-party verified for reliable performance by an accredited agency. Examination and testing includes evaluation of the product for suitability, performance and reliability. A system that is listed has been assessed to reliably operate to mitigate and control the hazard when an incident occurs.

What is a NRTL?

A Nationally Recognized Testing Laboratory (NRTL) is an independent third-party organization that is recognized by the Occupational Safety & Health Administration (OSHA), and accredited to perform safety testing and product certification to codes and standards.

One such organization is FM Approvals, a globally recognized leader in third-party testing and certification services focused on researching and testing products to ensure that they meet the highest standards for property loss prevention and safety.

Codes and standards requiring "listed" systems:

Unified Facilities Criteria UFC 3-600
9-18.12 Releasing Control Panels

9.18-12.1 In addition to the requirements specified above for fire alarm control panels, panels used for control or release of fire suppression systems must be listed by a NRTL for releasing service.

9.18-12.2 Electronic solenoids used for release of the suppression system must be listed by a NRTL for use with both the releasing panel and the suppression equipment.

NFPA 72®: 2016
23.11 Suppression System Actuation

23.11.1 Releasing service fire alarm control units used for automatic or manual activation of a fire suppression system shall be listed for releasing service.

23.11.2 Releasing devices for suppression systems shall be listed for use with releasing service control units.

NFPA 72 defines the term "Listed" as follows:

3.2.5 Listed. Equipment, materials, or services included in a list published by an organization that is acceptable to the authority having jurisdiction and concerned with evaluation of products or services, that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services, and whose listing states that either the equipment, material, or service meets appropriate designated standards or has been tested and found suitable for a specified purpose.

A.3.2.5 Listed. The means for identifying listed equipment may vary for each organization concerned with product evaluation; some organizations do not recognize equipment as listed unless it is also labeled. The authority having jurisdiction should utilize the system employed by the listing organization to identify a listed product.
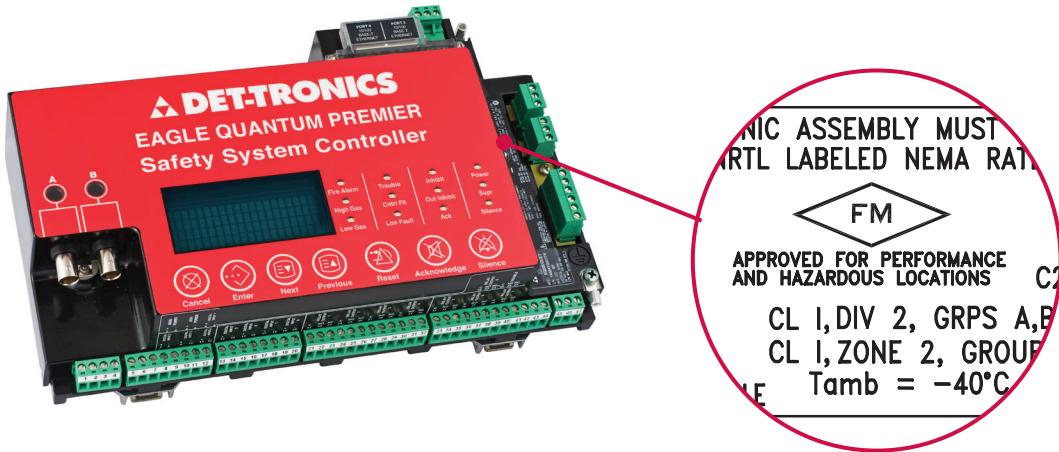
Listed releasing control panels

As noted previously, a fire alarm system must be listed by a NRTL. A system that fails to detect or suppress a fire may cause a significant negative financial consequence or may even impact the lives of people. Per many codes and standards, a fire safety system that is used for releasing must be listed. To ensure compliance with required codes and standards, select a system that is listed. Codes are typically enforced by Authorities Having Jurisdiction (AHJ).

Unlike other similar fire and gas systems, the **Det-Tronics Eagle Quantum Premier®** fire and gas safety system and the fire and gas detection products that Det-Tronics manufactures are listed by FM Approvals and appear in the FM Approvals guide. These products are also labeled "FM Approved" to allow our customers and AHJs to easily identify the equipment listing.

Det-Tronics EQP fire and gas safety system controller is listed by FM Approvals.

Disclaimer

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About Det-Tronics

Det-Tronics is a global leader in fire and gas safety systems, providing premium flame and gas detection and hazard mitigation systems for high-risk processes and industrial operations. The company designs, builds, tests and commissions SIL 2 Capable flame and gas safety products ranging from conventional panels to fault-tolerant, addressable systems that are globally certified. Det-Tronics is a part of Carrier, a leading global provider of innovative HVAC, refrigeration, fire, security and building automation technologies.

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