



TEAM-1

Self-Contained Aerosol Activation Module

Technical Manual

1 Introduction

The TEAM-1 is a self-contained aerosol activation module.

The TEAM-1 includes a self-contained heat sensor that operates as Rate-of-Rise and fixed-temperature detector, control circuitry, and activation to an electronic igniter that releases the aerosol for extinguishing, input for manual activation switch and or linear heat detector.

The unit reports via open collector alarm condition, trouble condition, and provides "watch-dog" pulses to indicate the unit is alive.

The module is operated by its own supervised power source.

The TEAM-1 is not intended to replace fire detection and automatic extinguishing systems that are required according to relevant regulations.

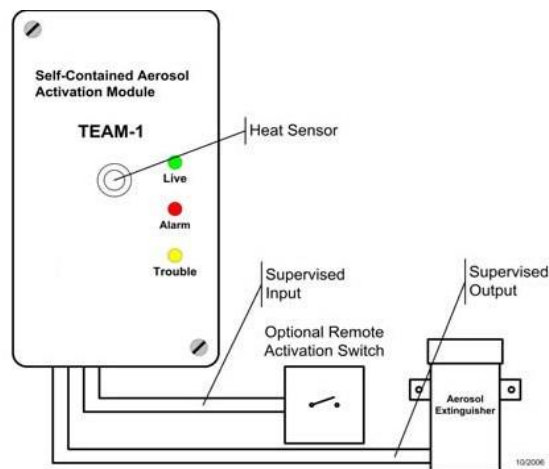


Figure 1 TEAM-1 Automatic Aerosol Activation Module

2 Installation

Only authorized people should install the TEAM-1. Install the unit near the top of the protected space. Install the aerosol container according to the manufacturer's specification.



Warning

Disconnect all power sources when installing the TEAM-1 in protected spaces that have power sources.

1. Remove the module's top cover.
2. Secure the module to the top surface of the protected space (see Figure 2 on page 2 for location of the openings for mounting screws).
3. Connect the aerosol extinguisher to the terminal marked "**ELECTRIC MATCH**". Connect the optional remote activation switch to the "**REMOTE ACTIVATION**" terminal, if required. Connect the 5.1K End of Line resistor to the switch as indicated by Figure 2. If the system is supervised by a Building Management System (BMS), connect the Alarm (AL), Trouble (TR), and Watchdog, (WD) open-collector outputs to the appropriate BMS inputs. Secure the cable mechanically with a Tie Wrap
4. Insert four alkaline AA batteries in the battery pack and connect it to connector JP3 (see Figure 2).
5. Ensure proper operation – the green LED flickers every 10 seconds to indicate a normal status.
6. Close the module's cover – take care of the location of the sensor and LEDs.

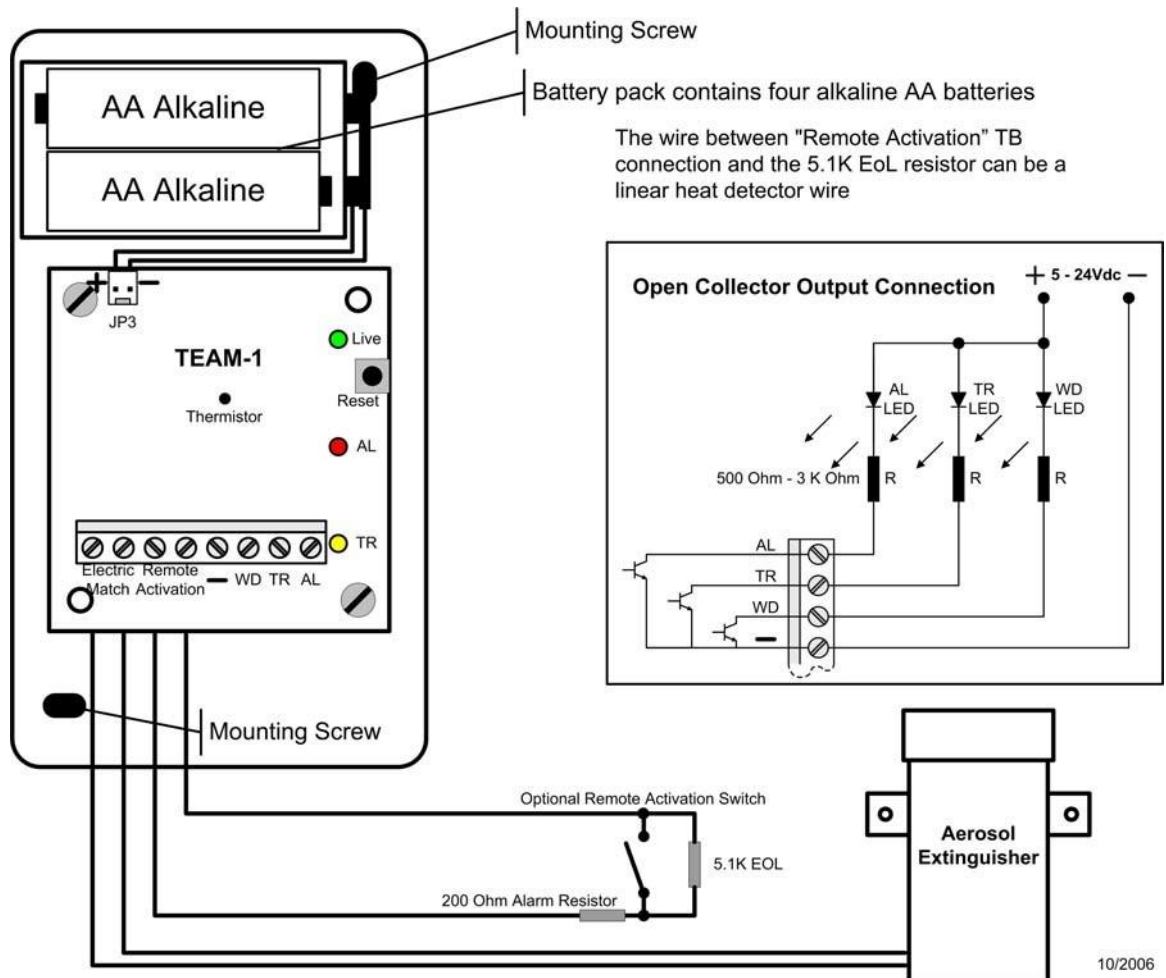


Figure 2 TEAM-1 Connection

Please Note

The TEAM-1 is a self-contained activation module for extinguishing devices that operate by activation of an electric igniter that was tested and approved by GreenEx, such as the igniter supplied with aerosol extinguishers manufactured by GreenEx. The TEAM-1 is not intended to replace fire alarm systems that include a control panel, remote annunciators, smoke detectors, heat detectors, call points, sounders, strobes, and extinguishing devices as required by standards and regulations applicable to the installed location.

Conform to the country's relevant standards and regulations applicable to the system's location when installing automatic extinguishing systems. Some applications are not compatible with the TEAM-1 due to regulations, local laws, or applicable standards. Ensure that the requirements and regulations relevant to the installed location do not prohibit such a system. The TEAM-1 is intended for applications where relevant regulations do not specify a fire alarm and extinguishing system.

The TEAM-1 operates by heat detection. Do not use the TEAM-1 if smoke detection is required.

In instances where the module's characteristics conflict with any standard, you should install a system that is fully compliant with the relevant standards. In such cases you may install the TEAM-1 module in addition to the system that is required by regulation.

3 Indicating LEDs

The system has three LEDs for status indication, **LIVE**, **ALARM**, and **TROUBLE**.

Alarm signal is latched until reset. Trouble signal changes back to normal once the trouble event is resolved.

3.1 *Live*

Flickers every 10 seconds to indicate a normal status.

3.2 *Alarm*

- Off during normal operation
- A repeated pattern of a single beep and a single flicker to indicate activation by the built-in temperature sensor
- A repeated pattern of a single beep and a double flicker to indicate activation from the remote activation switch

3.3 *Trouble*

- Off during normal operation
- A single flicker once a minute to indicate low battery condition
- A beep and a single flicker indicate a disconnected activation ("**ELECTRIC MATCH**")
- A double flicker and beep from the built-in buzzer indicate a disconnected or short in the optional remote activation switch ("**REMOTE ACTIVATION**")

4 What to Do After Activation

Replace the aerosol container and the batteries and verify normal operation (**LIVE LED** flickers every 10 seconds to indicate a normal status).

5 Periodic Maintenance

5.1 *Weekly Inspection by the Site's Safety Supervisor*

The TEAM-1 module should be inspected weekly by the site's safety supervisor for normal operation:

- **LIVE LED** (green) flickers every 10 seconds
- **ALARM** (red) and **TROUBLE** (yellow) LEDs are off
- The buzzer is off

Call your service organization if any of these conditions are not met.

6 Warnings and Limitations

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Please Note

The TEAM-1 module contains various elements, including a control module, and a heat detection sensor that are intended to activate a compatible extinguishing unit by triggering a pre-defined electric igniter.

The use of the module does not guarantee a protection / prevention of fire damages, but the module's operation may reduce and minimize fire damages.

WHEN USED WITH AN EXTINGUISHING DEVICE, PROPER PLANNING OF THE SYSTEM'S CONFIGURATION AND ALL ITS COMPONENTS INCLUDING INFRASTRUCTURE, AND INSTALLATION ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STANDARDS IS AN IMPERATIVE AND RELIANT PREREQUISITE AND CONDITION PRECEDENT FOR THE SYSTEM'S PROPER AND EFFECTIVE OPERATION.

The designer and installer should possess the appropriate skills for said implementation and any loss or damage caused due to improper planning or installation will befall solely upon the planner and/or installer.

THE RESPONSIBILITY FOR ANY IMPROPER ACTION PERFORMED THAT RESULTS IN LOSS OR DAMAGE WILL BEFALL SOLELY UPON THE PLANNER AND/OR INSTALLER.

The manufacture bears no responsibility for fire and/or fire outset in locations where fire detection systems are installed and/or damages direct or indirect caused to any person and/or property or third parties as a result of use of this product or resulting from any malefaction thereof.

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Note

Do not install, commission, or maintain the system prior to reading this manual in full.

7 Specification

Dimensions (W / H / D)	73 / 130 / 35 mm
Weight	220 gr. including batteries
Operating Temperature Range.....	-10°C – +60°C (14°F – 140°F)
Relative Humidity Range	10% – 93% non-condensing
Operating Voltage.....	6 V
	(supplied by 4 AA alkaline batteries such as Duracell or equivalent)
Battery Operating Time	2 – 3 years, dependent on battery and environmental conditions
Average Current Consumption	
Standby	50 µA
Alarm	1.5 mA
Activation temperature	
Rate of Rise	8°C / minute, if over 40°C
or Fixed Temperature	70°C
Remote Activation resistance to trigger alarm.....	150 – 900 Ohm
Remote Activation End of Line Resistor	5.1 K Ohm
Max current draw from open collector output	50 mA

Specifications are subject to change without prior notice