



Amerex Defense

PO Box 81 Trussville AL 35173-0081
 PH (205)655-5703 • FAX (205)661-4111



Autonomous Detection & Release Panel

RUGGED

- Tested per MIL-STD-461F, 704F, 810G
- Sealed Aluminum Enclosure
- Operating Temperature -68°F to 186°F

BENEFITS

- Provides 24/7 Protection
- NO External Vehicle Power Requirement
- Long Life Field Replaceable Batteries
- Agent Tank Pressure Monitoring
- Dual Automatic Detection Zones
- Utilizes Linear Heat Detection
- Dual Releasing Zones
- Manually Release One or Both Zones
- On Command System Test Switch
- System Disable/Transport Switch
- Supervises ALL Electrical Circuits
- Supervises Battery Condition
- Non-Cadmium Connector
- Small Lightweight Design
- Simple Installation & Maintenance



PN 20544

The Amerex Autonomous Detection & Release Panel provides automatic fire detection and releasing capability without the need for any vehicle power connection. The replaceable internal lithium batteries supply power to the control panel for up to 3 years in service, even after storage. Two detection and release zones are provided for both automatic and manual actuation of the fire suppression system, as well as a manual release for both zones simultaneously.

The Autonomous Panel is designed specifically for rugged Commercial and Military on and off-road vehicle use. A lightweight aluminum enclosure surrounds military qualified electronic components. The panel provides electrical supervision of fire detection, release, manual activation, and agent cylinder pressure circuits as well as battery condition.

The Autonomous Panel includes a maintenance/transport guarded toggle switch that can be secured in the "Disarm System" position to disable the system. This feature is used to extend storage life as well as prevent unwanted discharge during transport or vehicle maintenance.

A momentary guarded toggle switch is provided to perform an on-command system test of circuit integrity, tank pressure, and battery condition. When commanded, the test switch initiates a built in test of the fire suppression system and the panel illuminates either a green system OK LED or a yellow system trouble LED.

Supplementary Components

Manual Release Button	23332
Manual Release Switch	20810
Detection Zone End Of Line	21911
Linear Heat Detection Wire	PN Varies By Application
Wire Harness	PN Varies By Application



PN 23332



PN 20810



PN 21911



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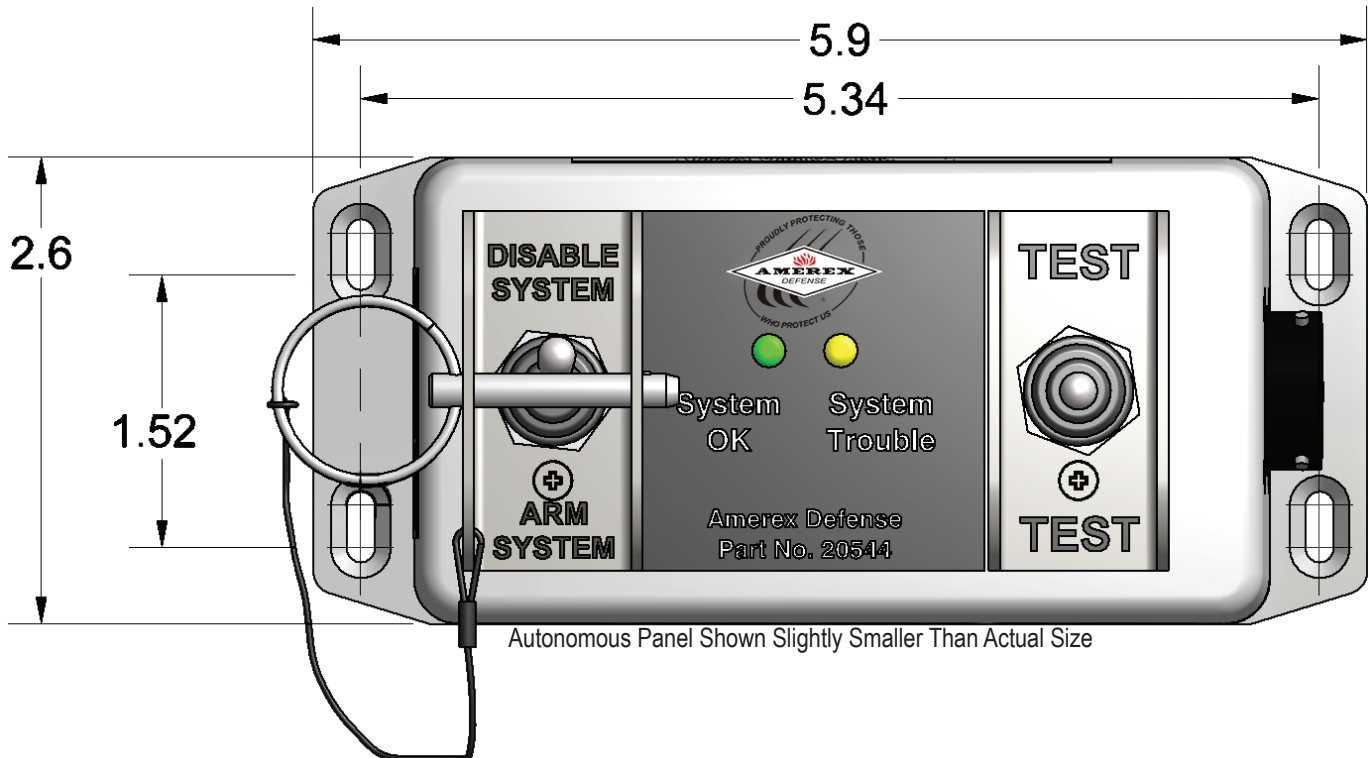


Autonomous Detection & Release Panel

Electrical	
Operating Voltage	3.6 VDC Internal Battery
Alarm Signal	1A @ 10ms @ 3.6VDC
Supervised Circuits	Internal Battery (2) Release Zone Circuits (2) Automatic Detection Zones Pressure Switch Circuit Manual release Circuit (Releases both zones)
Battery Composition	Lithium-thionyl Chloride (LI-SOC12) R6-AA
Battery In-Service Life	up to 3 years
Battery Shelf Life	up to 7 years
Heat Detection	Linear Heat Detection on Normally Open Detection Contacts

Mechanical	
PN	20544
SHIPPING WT. (LBS.)	1.00 (455 g.)
HEIGHT (IN.)	2.42
WIDTH (IN.)	2.6
DEPTH (IN.)	5.9
SERVICE TEMPERATURE	-68°F to 186°F (-55°C to 85°C)

Compliance	
ENVIRONMENTAL	MIL-STD-810G
ELECTRICAL	MIL-STD-704F
EMI	MIL-STD-461F



Autonomous Panel Shown Slightly Smaller Than Actual Size