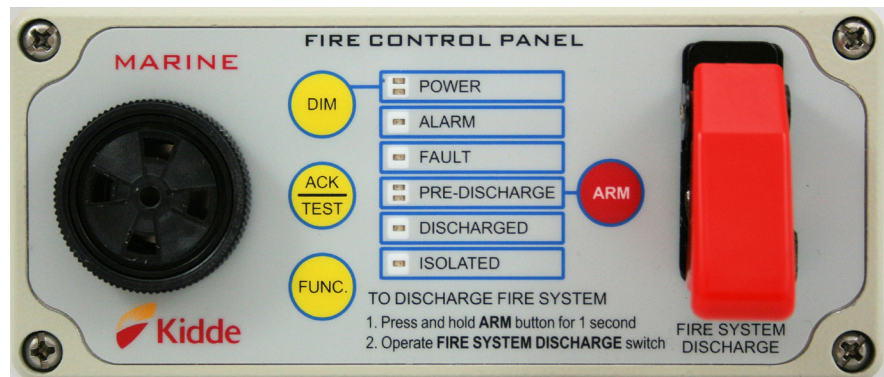


## Kidde® Marine detection & control

The latest in compact Marine detection & control panels specifically designed for commercial and recreational boats and other small to medium applications protected by Stat-X® aerosol suppression systems.



Developed and manufactured by Kidde in Australia to meet the requirements of the demanding Marine environment. The MV panels have a comprehensive feature set and are configurable to allow the fire protection system to be tailored to meet individual customer or equipment requirements. Detection and actuation circuits are supervised. The panels incorporate an event log capable of storing up to 600 events, a manual release, audible and visual alarms in a single IP65 rated metal enclosure.

The new panels are especially suited to Stat-X® aerosol suppression systems; They are capable of discharging up to 3 Stat-X® aerosol generators (12V Power supply) or 8 Stat-X® aerosol generators (24V Power supply) connected in series. The panel also incorporates an auxiliary relay output which can be used power source or for the operation of auxiliary audible and visual alarms.

The marine vessel (MV) panel [Part No. 001927] has been designed to meet the requirements of the National Standard for Commercial Vessels (NSCV) part C design and construction, section 4 fire safety. It has also been subjected to component testing as specified in Appendix D of Australian Standard AS 5062, Fire protection of mobile and transportable equipment.

### Typical Marine and Offshore Applications

- Workboats
- Fishing Vessels
- Tugs, Towboats & Ferries
- Search & Rescue
- Law Enforcement Vessels
- Hi-speed Vessels & Hovercraft
- Combat Craft & Special Ops
- Offshore Rigs & Platforms
- Pleasure Craft
- Electrical Equipment and Cabinets
- Switch and Control Rooms
- Pumps and generators
- Transformer/Inverter enclosures
- Equipment machinery spaces

## The MV panel:

- Supports automatic fire detection and alarm functionality.
- Display provides visual indications of system status, alarms, and faults.
- Incorporates a manual discharge switch (fire system discharge) to allow the manual operation of the fire suppression system

Automatic discharge of fire suppression systems is not permitted on commercial vessels and the MV panel has been designed to comply with this requirement. The MV panel does not support automatic discharge of the suppression system

Owners of private vessels may wish to have a fully automatic fire detection and suppression system installed to provide protection to the vessel even when it is unmanned. This is permissible for private recreational vessels, and in such cases, a LV panel [Part No. 001926] could be used instead of a MV panel to provide this functionality.



## Immunity to Electromagnetic Interference

Most industrial environments produce high levels of electrical noise so the MV panel has been compliance tested for immunity to electromagnetic interference against the requirements of Australian Standard AS 61000.6.2:2006, Electromagnetic compatibility (EMC) – General standards – Immunity for industrial environments.



To minimize the effects of electromagnetic emissions from high energy sources the MV panel input cables should not be run parallel, or in close proximity to any cables or equipment that may produce high RF (radio frequency) energy.

For example, cabling for RF transceiver antennas, inverters, motors etc.

Marine Vessel Panel: Features and Specifications	
Feature	Description
Electrical field connections	IP65rated Deutsch DT series connectors.
Enclosure	IP65rated metal enclosure.
Indications	<ul style="list-style-type: none"> <li>• ALARM – red LED</li> <li>• Buzzer</li> <li>• DISCHARGED – red LED</li> <li>• FAULT – amber LED</li> </ul> <ul style="list-style-type: none"> <li>• ISOLATED – amber LED</li> <li>• POWER – FAULT amber LED</li> <li>• POWER – ON green LED</li> <li>• PREDISCHARGE – amber and red LEDs</li> </ul>
Inputs	<ul style="list-style-type: none"> <li>• 1 detection input suitable for use with Hochiki conventional smoke or thermal detectors, or LHD cable and thermal probes.</li> <li>• 1 discharge confirmation input (latching).</li> <li>• 2 external power inputs – nominal 12 V or 24 V (8 V DC to 30 V DC).</li> </ul>
Manual controls	<ul style="list-style-type: none"> <li>• ACK/TEST – push button used to: <ul style="list-style-type: none"> <li>• Test (panel idle) – operates all audible and visual indicators and auxiliary output.</li> <li>• Acknowledge – suppresses audible fault and alarm indications.</li> </ul> </li> <li>• ARM push button with configurable delay timer periods of: 0 (default), 5, 10, 15, 20, 30, 40 and 60 sec.</li> <li>• DIM – push button used: <ul style="list-style-type: none"> <li>• In the normal state to adjust the brightness of the LED indicators.</li> <li>• In a FAULT state to provide access to the faultfinding diagnostic function (common system faults).</li> </ul> </li> <li>• FAULT – fault finding function.</li> <li>• FIRE SYSTEM DISCHARGE – missilestyle switch.</li> <li>• FUNC. – push button used in combination with other panel buttons, allows users to perform additional functions.</li> <li>• ISOLATE switch located on panel printed circuit board (PCB).</li> <li>• Used to isolate the discharge output for testing purposes.</li> <li>• System reset – used to reset panel following fault or alarm indications.</li> </ul>
Outputs	<ul style="list-style-type: none"> <li>• 1 auxiliary output, rated for 2 amps, – used to switch panel incoming power supply voltage (default configuration). The auxiliary output can be configured if desired to provide a continuous DC power supply of the same voltage as the supply voltage for the panel.</li> <li>• 1 predischarge alarm output rated for 2 amps – used to switch incoming voltage.</li> <li>• 1 discharge output, rated for 1 amp, switches incoming panel power supply voltage (supervised for open circuit and earth faults). Capable of activating: <ul style="list-style-type: none"> <li>• Up to 3 StatX® aerosol generators, connected in series for 12 volt powered systems.</li> <li>• Up to 8 StatX® aerosol generators for 24 volt powered systems.</li> </ul> </li> </ul>

### Warranty

Kidde Australia warrants to the Customer that each new Light Vehicle Panel is free from defects in material and workmanship under normal use for a period of twelve (12) months from the date of commissioning of Stat-X® system. Please refer to Kidde's Terms and Conditions of Sales and for full details

**Stat-X® highly-advanced fire suppression technology offers a highly compact and economical fire extinguishing solution. A Stat-X® unit consists of an extremely rugged, hermetically sealed, stainless steel canister containing a stable, solid compound. The canister is durable and non-pressurized, and is capable of withstanding harsh, corrosive environments. In the event of a fire, Stat-X units automatically release ultra-fine particles and propellant inert gasses which quickly and effectively extinguish fires without depleting oxygen levels and has zero Ozone Depletion Potential (ODP) and zero Global Warming Potential (GWP).**

## Stat-X® Fire Suppression Systems - Advanced Technology

Compared to traditional pressurized gas or chemical agent piped systems Stat-X® advanced technology is economical to install and own. No special storage space or distribution piping is needed. And since the Stat-X® agent is generated only when the system actuates, you don't have regular agent level inspections or containers to weigh and hydro-test over the years. When discharged, the aerosol agent remains buoyant protecting the space for an extended period of time. Afterwards, it is easily vented out for clean-up leaving little residue. Spent Stat-X® units are simply replaced and the system can be restored.

### Key Benefits of Stat-X® Fire Suppression Technology

- Highly effective fire suppression
- Compact, light and durable, 90% less weight and space required compared to gaseous suppression systems
- Rugged stainless steel construction
- Virtually maintenance-free
- 10+ year service life
- Easy to install
- Easy replacement, no recharging or refilling
- Minimal residue after discharge
- Non-corrosive, non-conductive, non-toxic (when designed and operated to listing requirements)
- Reduced downtime for mining operations
- Zero Ozone Depletion and Zero Global Warming Potential
- UL and multiple international approvals and certifications

Stat-X® vehicle and marine systems must only be designed, installed, and commissioned by technicians accredited by Kidde Australia.

Kidde Australia assumes no responsibility for the application of any systems other than those addressed in the Light Vehicle Installation and Maintenance manual. The technical data contained herein is limited strictly for informational purposes only.

All information contained in this document is based on the latest product information available at the time of preparation and Kidde reserves the right to make changes at any time without notice.



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Kidde Australia operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and Kidde Australia should be contacted to ensure that the current issues of all technical data sheets are used.

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