



TECHNICAL BULLETIN

ALMASPNFW with BATTERY BACK UP

ETI has released an electrical fire detection control panel systems product. In such systems, there are two sources of power, namely the primary power supply, which is a power source controlled by the “on” position of the operator’s key. The secondary source should be wired to the permanent battery source.

To meet the requirements of the 72 hours standby, ETI advises that a normal minimum of at least 10 Amp/Hrs of battery capacity at the approved voltage range be available to provide this backup.

“Ref AS5062-2006 9.6.2.2 POWER SUPPLY

- (a) The primary power supply shall be of sufficient capacity to independently provide power for all system functions when the equipment is running.**
- (b) The secondary power supply shall be capable of supplying sufficient power to operate all system functions required by this Standard after a standby period of 72 hours. The secondary power supply shall be supervised and generate a fault condition when no longer able to meet this requirement.**

When the suppression system is designed for the possible simultaneous protection of multiple enclosures, the power supplies shall be calculated to satisfy the maximum simultaneous demand.

Loss of electric power shall not prevent the manual operation of the fire suppression system.”

To avoid the situation that the system cannot be operated manually when electric power is lost, the alarm is equipped with a power source so that the control panel is able to work independently.

Therefore, after going through the process of product development, The Alarm Panel for the Fire Wire system is able to be equipped, when required with a battery backup that serves as a power source to activate the fire protection system.

The Battery backup is capable of providing sufficient power to one solenoid to activate the fire protection system after the Alarm Panel has indicated is not getting power supply from the main battery on the machine being protected.

This standby power is guaranteed to be available for a minimum of 3 days.

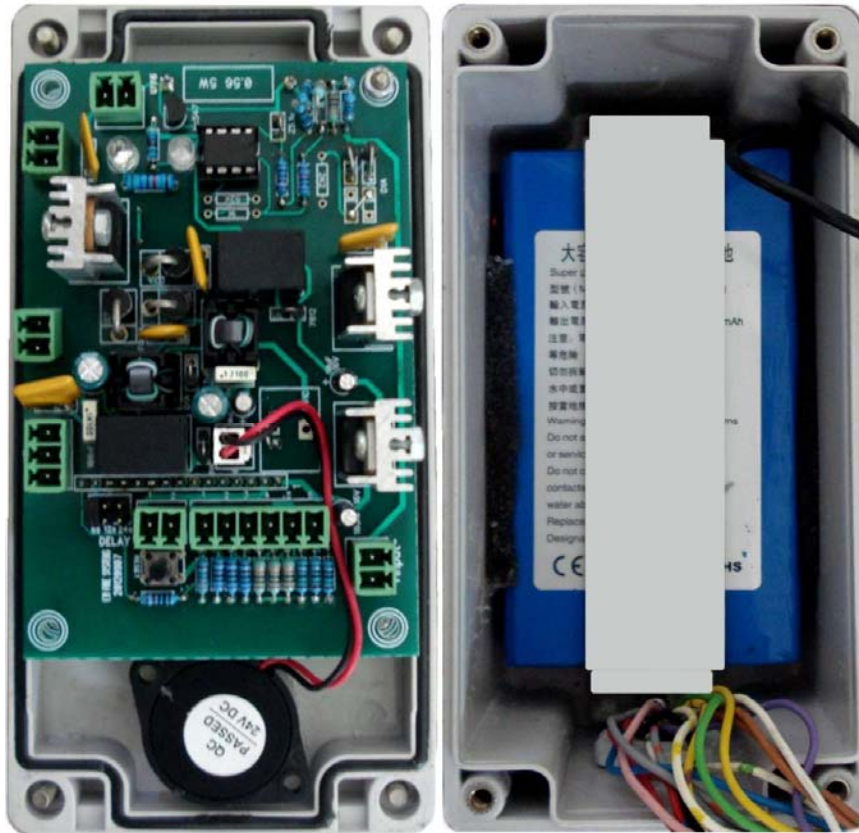
A later bulletin will detail a further additional battery backup system capable of controlling up to 8 solenoids.



All functions and specification on this alarm panel are similar to the functions of the alarm panel that exists in previous versions.

However, on this panel, a Battery Fault Indicator and a Battery Charging Systems has been added.

The Battery Fault Indicator indicates that the battery is flat/faulty and out of order or that the battery has been disconnected from panel (not plugged in) or the battery is switched off.



Battery Specification :

- Lithium-ion Battery Pack 12 Volt DC – 9800 mAh
- ON – OFF switch
- Led Indicator

The battery must be replaced yearly.

Yours Sincerely



Bambang Isti Yudono
Technical Manager & Chief Engineer