

ALANN IV DATASHEET

A.C.T. Part # (varies with the customization options)

DESCRIPTION

The ALANN IV Emergency Shutdown System is a Microprocessor based unit with a minimum of 8 field inputs and is expandable in 8 channel increments. The ALANN IV monitors normally open contacts, conducts wiring supervision on every channel and provides "First Out" indication using super bright LED's.

12VDC solar power plus battery redundancy, combined with low power consumption makes this system an ideal fit for remote locations.



FEATURES

- **Solar power** provides an unlimited power source for the unit
- **"First out" indication** when an alarm is detected
- **Audible alarm** alerts local operator to abnormal conditions
- **Reset function** can be configured to ignore existing alarm until resumption of normal operating process
- **Intrinsically safe** current & voltage levels
- **Modbus capability** available to provide the A-IV system with an easy link to the outside world via RS232 or RS485 connection.
- **Supervised wiring** provides an automated check to confirm field wiring integrity, and can also be configured for alarm & shutdown or alarm only
- **Modules can be paralleled** to provide more input channels while maintaining first out indication
- **Solenoid valve** can be configured to operate magnetically latched or continuously energized
- **Input circuits are protected** from transient voltages generated by field equipment, electrical storms, etc.
- **Cost effective** installation with reliable, off the shelf pressure/level, temperature sensors and end devices

AVAILABLE END DEVICES

- Switch Gauges:**
Pressure and Temperature
- Various ranges from 0-100psi up to 0-10,000psi
 - Various temperatures from 250° F - 500° F
- Level Switches**
- Customized length and configuration
- Fusible Elements**
- Temperature based fuse, < 200° F
- Pressure Monitors**
- Various configurations and ranges
- Additional devices available upon request**

* The part number of this product varies with the customization options selected



STANDARD CONFIGURATIONS

Alert Control Technologies Standard Assembly Part Number	Channels	Battery (Amp Hours)	Solar Panel (Watts)
ACT-AS002-000	8	8	5
ACT-AS003-000	16	18	10
ACT-AS027-000	24	18	10

WHAT'S INCLUDED

- A-IV Unit
- 12VDC Sealed Lead Acid Battery
- Solar Panel with mounting bracket and power leads

CONFIGURATION OPTIONS

The A-IV unit can be configured to fit your specific needs and purposes with various channel quantities, different capacity batteries, larger solar panels, or other customizable features. Contact us to see how we can solve your specific problems with a customized Alert Control Technologies safety system!

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BATTERY SPECIFICATIONS

See included PDF

SOLAR PANEL SPECIFICATIONS (5, 10, 20 WATT)

Maximum Power (Pmax)	5 Watt	10 Watt	20 Watt
Optimum Operating Voltage (Vmp)	17.1 Volts	17.1 Volts	17.1 Volts
Optimum Operating Current (Imp)	0.29 Amps	0.58 Amps	1.17 Amps
Open Circuit Voltage (Voc)	21.4 Volts	21.4 Volts	21.4 Volts
Short Circuit Current (Isc)	0.32 Amps	0.65 Amps	1.3 Amps
Nominal Voltage (V)	12 Volts	12 Volts	12 Volts

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