

# ALANN IV Modbus

**A.C.T. Part # Various\***



## 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.

With Modbus capability via RS232 and RS485 connections, the ALANN IV can be easily connected to the outside world.

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

## FEATURES

- **Solar power** provides an off the grid, unlimited power source for the unit
- **Modbus Communication** provides detailed analysis of alarms and shutdowns via optional satellite modem
- **Software Controlled** low voltage alarm and shutdown
- **“First out” indication** shows when an alarm is detected
- **Modules can be paralleled** to provide more input channels while maintaining first out indication
- **Intrinsically safe** current & voltage levels
- **Audible alarm** alerts operator to abnormal conditions
- **Reset function** can be configured to ignore existing alarm until resumption of normal operating process
- **Supervised wiring** provides an automated check to confirm field wiring integrity, and can also be configured for alarm & shutdown or alarm only
- **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

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

## WHAT'S INCLUDED

- A-IV Unit with Modbus Communication
- 12VDC Sealed Lead Acid Battery\*
- Solar Panel with mounting bracket and power leads\*
- Grounding rod & leads

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



**CONFIGURATION OPTIONS**

The A-IV unit with Modbus Communication 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!

Alert Control Technologies Part Number	Configuration Options		
	Channels	Battery	Solar Panel (Watts)
ACT-AS002-054	8	18	20
ACT-AS003-007	16	35	20
ACT-AS003-009	16	18	20
ACT-AS027-005	24	2x 18	20
ACT-AS027-007	24	26	20

**SOLAR PANEL SPECIFICATIONS (20, 50, & 85 Watt)**

	20 Watt	50 Watt	85 Watt
Maximum Power (Pmax)	17.1 Volts	17.64 Volts	17.64 Volts
Optimum Operating Voltage (Vmp)	1.17 Amps	2.83 Amps	4.82 Amps
Optimum Operating Current (Imp)	21.4 Volts	21.4 Volts	21.4 Volts
Open Circuit Voltage (Voc)	1.3 Amps	3.04 Amps	5.16 Amps
Short Circuit Current (Isc)	12 Volts	12 Volts	12 Volts
Nominal Voltage (V)			

**BATTERY SPECIFICATIONS**

See included PDF

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