

Acme's Environmental Management System

Easy to Install
Easy to Set Up
Easy to Run

Easy As 123



Acme's Environmental Management System

The EMS is your complete station for environmental control. Any ACME controller may be mounted in the door and wired into the bank of high power relays. The flexible design allows for configuring the EMS to the needs of the application. Either 6, 9, 12 or 15 power relays (DPST) are available to control fans or other equipment with up to 2 HP motors. Each of these relays are designed to handle the heavy starting currents of today's high efficiency motors. Each relay is prewired to a bypass switch which allows for automatic operation or for manual operation with total disregard of the electronic controller and power relay. ACME has prewired all bypass switches, relays, and controller connections. In addition to the standard power relays, the EMS is available with double throw (DPDT) relays for the control of equipment such as two speed fan motors.

FEATURES:

- 6, 9, 12 or 15 power relays-DPST
- 3 or 6 power relays-DPDT
- Bypass switches for power relays
- 1Ø or 3Ø power relays
- Safe 24VAC control wiring
- Humidity control available
- Sealed aluminum enclosure
- Environmentally protected
- Hinged enclosure for easy access

Other options include humidistat control and multiple temperature sensors. Power vents are handled by the inclusion of up to 3 control relays. All the electronics are powered by a heavy duty 24 volt AC transformer.

All hardware is factory installed inside of a heavy gauge aluminum enclosure. This enclosure is dust-tight with gasket seal and welded seams, and is designed to withstand the rigors of the agriculture environment. All internal components are easily accessible through a hinged door with stainless steel latches.

The EMS is available with a standard connection between the controller and the relay panel. This is fully documented and is easily modified for the specific application. ACME will supply, upon request, a facility layout and documentation for the specific installation.

ACME also offers the EMS fully wired to the exact application. These units are supplied with facility wiring layouts leaving only the basic power wiring for the field electrician.

Acme's Environmental Management Plan Makes It Easy!

By filling out the Application Check List, ACME can supply a full set of installation documentation. Using these prints the EMS can be wired by a local electrician to fit the exact needs of the customers facility. For a small additional charge ACME can wire all control wiring interconnects in addition to the standard EMS wiring. With this option the only field wiring is between the Load Center and the EMS, and the EMS to the fans or other equipment being controlled.

1

Provide Facility Layout, Equipment List, Equipment Placement in Facility and Temperature Staging Profile



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Easy To Set Up

2

ACME will configure a customized EMS complete with installation documentation.



3

All you need to do is mount the EMS on the wall and connect it to the main power and to the equipment being controlled.



STANDARD ACME SUPPLIED DOCUMENTATION:

1. Service Panel Board Layout

This layout shows the suggested mounting location.

2. Control Schematics and Diagrams

These detail the standard control interconnects and show the changes necessary to meet your exact configuration. For an additional charge ACME can customize the control wiring to your specific need.

3. One Line Power Diagrams

This diagram shows the all power wiring both ACME wired relays and switches as well as the field wiring. This diagram is supplied to give your electrician a complete control diagram.

4. Power Wiring Diagram

This diagram pictorially shows the field wiring needed to interface the EMS to your equipment. This is the working document your electrician can use to wire your facility.

5. Load Schedule and Equipment Inventory

This is an inventory of all the electrical equipment controlled by the EMS. The total electrical demand of this equipment is used as part of the input needed to determine the size of your electrical service.

THREE PHASE EMS CONFIGURATION

The EMS is available with up to eighteen 3Ø motor controllers. Each motor controller has a disconnect switch along with overload relays. The motor controllers are rated for up to 3 HP. In

addition each 3Ø EMS may have one bank of three DPST 1Ø power relays. All three phase EMS boxes must be individually configured by ACME. Please contact your local dealer.



**SYMBOL
OF QUALITY**

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