

The new Model 2430 Electronic Lead/Lag Controller is a microprocessor-based module which performs all HVAC controls in remote, above ground telecommunications structures.



FEATURES

Microprocessor-based Lead/Lag Temperature Control

The Model 2430 is designed specifically to execute full HVAC control of above ground structures to assure a precisely controlled and safe environment for telecommunications equipment and personnel working within the structure. Lead/lag and demand logic control two air conditioning units for cooling, heating and economizer operation. Lead air conditioner cycle period, lead and lag set points, short cycle delay and economizer set points are all fully adjustable. Since all data is stored in flash memory, power outages do not result in lost data nor is there the need for periodic battery replacement.

Operator-friendly Front Panel

Operator interface is facilitated through a 16 character x 2 line, alphanumeric LCD display and keypad. Structure temperature in either degrees Fahrenheit or Celsius, automatic or manual control status and number of active alarms are normally displayed. Using the conveniently labeled keys, the operator is able to display lead and lag set points for both cooling and heating, high and low temperature alarm set points and status of alarms and controls. Within status of controls there is a manual

on/off override to enable manual control of all HVAC equipment.

Ease of Installation and Wiring

Measuring 10.5" x 9.3" x 2.15" (HWD), the Model 2430's slim profile affords easy wall mounting with minimum protrusion from the wall. The front panel is completely removable to allow fully open access for ease of field wiring. Primary power to the Model 2430 can be 110 VAC, 220 VAC or 12-50 VDC.

Comprehensive Expansion Capability

The Model 2430 is a standalone, full function, lead/lag controller offering 8 digital inputs, 9 control outputs and 10 alarm relay outputs.



SPECIFICATIONS

System:

Power 120 VAC, 50/60 Hz
 220 VAC, 50/60 Hz
 12-50 VDC
 5 Watts nominal
 Microprocessor PIC Controller 16F877
 8 Kbytes EEPROM
 256 bytes EPROM

Environmental:

Temperature Operating Range
 40° to 122°F (-20° to 50°C)
 Storage Range
 -40° to 122°F (-40° to 50°C)
 Humidity 0 - 95% RH

Front Panel:

Display LCD alphanumeric
 (2 rows x 16 characters)
 Keypad 6 keys for set points, alarms, controls

Sensors:

Temperature Range: 0°F to 120°F (-15°C to 49°C)
 Accuracy: +/- 1°F (from 50°-100°F)
 Humidity: Range: 0-100% Relative Humidity
 (Optional) Accuracy: +/- 2% Relative Humidity

Mechanical:

Enclosure Sheet Metal Electrical Cabinet
 Mounting Brackets for Surface Mount
 Conduit
 Connections Knockouts for 1/2" and 3/4" conduit
 Dimensions 10.5" x 9.3" x 2.15" (HWD)
 Weight 5 pounds (2.2 Kg.)

Inputs:

Integral Temperature
 Relative Humidity (Optional)

Digital Intrusion
 Commercial Power Loss
 Smoke Alarm
 A/C 1 Fail
 A/C 2 Fail
 Spare (Qty. 3)

Total Digital Inputs: 8

Outputs:

Controls

SPDT, 5 Amp, 24 VAC

Cooling 1
 Heater 1
 Blower 1
 Economizer 1
 Cooling 1
 Heater 2
 Blower 2
 Economizer 2
 High Temperature Ventilation

Total Control Relays: 9

Alarms

SPST, 0.5 Amp
 High Temperature
 Low Temperature
 Intrusion
 Smoke
 A/C 1 Fail
 A/C 2 Fail
 Commercial Power Fail
 Spares (Qty. 3)

Total Alarms: 10

Options:

RH Sensor

Factory installed for internal relative humidity

Temp Sensor

External temperature sensor

Mounting Brackets

Top/Bottom or side brackets (Alternative to flush cabinet base mount)