



AW432-24VAC

- 4 AC Outputs Up To 2A
- 3 Optically Isolated AC Inputs
- 2 Analog Inputs w/10 Bit Resolution
- 3 Parameter Adjustment Pots
- 4 Dip Switch Configuration Inputs
- 2 Jumpers For Configuration/Expansion
- Independent Watch Dog Timer
- 24VAC Isolation Transformer On Power In
- In-Circuit Programming
- Expansion Port for Communications, Etc.
- LED Status Indicator
- EEPROM For Non-Volatile Storage
- Control Circuits Fully Isolated
- Size: 3.6"x 4.5"x 1.0"



FUNCTIONAL DESCRIPTION

This control is designed for 24AC (UL Low Voltage) control systems. The control circuitry is completely isolated from transients caused by external inductors such as valves and contactors making for extremely high reliability. The control is compatible with a variety of 28 pin PIC processors including the PIC16F873A-I used in the standard product. The processor is tied to a standard ICSP port to facilitate field and production programming.

Two analog sensor inputs provide 10 bit resolution with 0-5V range. Resistors are provided for scaling of higher levels and 4-20mA. One sensor is configured with a nominal 18VDC stimulus for sensors requiring power. The inputs are fully protected against transients.

Three optically isolated digital inputs can handle AC or digital signals. Three potentiometers provide a means for adjustment and calibration via the 10 bit A/D Converter. An external Watchdog Circuit provides a backup reset for extra reliability.

The expansion port is tied to the processor communications port to allow the addition of serial communications to the control. This also provides a handy diagnostic and test node.

The AW432-24AC control is designed and manufactured in the USA. Support including customer service and customized software or hardware is readily available. Free software and custom design are available to qualified OEM customers. Code support is available at no charge to all developers.