



# Critical Environments Controllers AC7200 & AC7300

*Airflow & Temperature Controller*



## Laboratories, Life Sciences, Healthcare

- Used with AccuValve Airflow Control Valves
- Room Airflow Tracking Control
- Room Temperature and Humidity Control
- 200Mhz Processor
- HTML5 Web Server
- BACnet®, TCOM, Modbus and Web Service
- 24V AC/DC Power
- Graphical User Interface Setup



The Accutrol AC7200 and AC7300 are versatile high-speed controllers for airflow and temperature control of laboratories, life science, healthcare and other critical environments. The AC7200 and AC7300 can be used to directly control the AccuValve® AVT or to provide setpoints for the AccuValve AVC.

Accutrol customers can effortlessly manage small networks of controllers, while offering graphics and trending capabilities that cannot be matched by the competition. Both controllers offer native BACnet®, TCOM, Modbus and web services (client and server) without the need for a bridge or external server.

User configurable I/O points give the ability to set each hardware termination to function exactly as desired with virtually any end device on the market today. This allows Accutrol customers to accommodate the more demanding sequences that are being required in current laboratory, life science and healthcare environments.

## Features & Benefits

### Graphical User Interface Setup

Intuitive graphical user interface enables programming parameters for control of different spaces.

### Dual Processor

Two powerful processors:

- ARM 9 S3C2410 200MHz main processor
- Cortex-M3 processor for the I/O

### Network Security

All configuration changes are password protected, either through standard network protocol access or web.

### Multiple Input/Output Type

The controllers have:

- Universal inputs (available as *digital, resistance, voltage, current* and *pulse*)
- Universal outputs (available as *digital, voltage* and *current*)
- Digital outputs

The chart on page 3 lists specific I/O quantities.

### On-Board Web Server

The on-board web server can provide individual graphics pages to simplify most of your automation tasks. The graphics are presented in a familiar HTML5 format, and can be configured for many levels of user access.

### SD Card Reader

An SD reader integrated into the controller allows historical and trending data to be stored for years. This reader also allows for simple upgrades and safe storage of data files, including the logic and graphics, for service purposes.

### Stand-Alone or Peer-to-Peer

The controller is *stand-alone* or *peer-to-peer* capable over Ethernet.

## AC7200 Specifications

### MECHANICAL

<b>Dimensions</b>	7.6" (193mm) L x 4.9" (124mm) W x 1.7" (43mm) H
<b>Weight</b>	1.4 lb. (700g)

### ELECTRICAL

<b>Power Supply</b>	24VAC ±5% or 24VDC +20%/-15%
<b>Consumption</b>	16VA
<b>Current Rating</b>	650mA @ 24VAC/DC
<b>Operating Temperature</b>	32° to 150° F (0° to 65° C)
<b>Storage Temperature</b>	-4° to 150° F (-20° to 65° C)
<b>Operating Humidity</b>	10% to 95% non-condensing

### INPUT/OUTPUT

<b>Universal Input</b>	12 Channels
Voltage	0-10V (+0.005V), 0-5V (+0.003V)
Current	0-20mA (+0.01mA)
Resistance	0-30K (+10 ohm), 0-10K (+5 ohm), 0-1.5K (+1 ohm)
Thermistor Sensor	10K, 10K Shunt, 1K Balco, 1K Platinum: All (±0.01°C)
<b>Universal Output</b>	6 Channels
Voltage	0-10VDC
Current	0-20mA, 4-20mA
Digital Mode	Max. Sinking
Current Rating	200mA
<b>Digital Output</b>	2 Channels
Relay Contacts	SPST NO, 48VA at 24VAC, Pilot Duty at 500mA

## AC7300 Specifications

### MECHANICAL

<b>Dimensions</b>	9.2" (233mm) L x 4.9" (124mm) W x 1.7" (43mm) H
<b>Weight</b>	1.7 lb. (800g)

### ELECTRICAL

<b>Power Supply</b>	24VAC +/-5% or 24VDC +20%/-15%
<b>Consumption</b>	18VA
<b>Current Rating</b>	750mA @ 24VAC/DC
<b>Operating Temperature</b>	32° to 150° F (0° to 65° C)
<b>Storage Temperature</b>	-4° to 150° F (-20° to 65° C)
<b>Operating Humidity</b>	10% to 95% non-condensing

### INPUT/OUTPUT

<b>Universal Input</b>	16 Channels
Voltage	0-10V (±0.005V), 0-5V (±0.003V)
Current	0-20mA (±0.01mA)
Resistance	0-30K (±10 ohm), 0-10K (±5 ohm), 0-1.5K (±1 ohm)
Thermistor Sensor	10K, 10K Shunt, 1K Balco, 1K Platinum: All (±0.01°C)
<b>Universal Output</b>	8 Channels
Voltage	0-10VDC
Current	0-20mA, 4-20mA
Digital Mode	Max. Sinking
Current Rating	200mA
<b>Digital Output</b>	8 Channels
Relay Contacts	SPST NO, 48VA at 24VAC, LED for Status

## Communication (AC7200 & AC7300)

### PHYSICAL INTERFACE 1 AND 2

EIA-485 (BUS A, B) Two-wire, Half Duplex

### PORT 1 AND 2

#### Modbus Baud Rate

Speed	38.4K
Data Bit	8 bits
Parity	None, even, odd

#### BACnet Baud Rate

Speed	9.6K, 19.2k, 38.4K
Data Bit	8 bits
Parity	None

**Ethernet Support** IP, TCP, UDP, ICMP, FTP, HTTP

**Application Support** Sox, TCOM, Driver, Modbus, BACnet

Your representative is:

