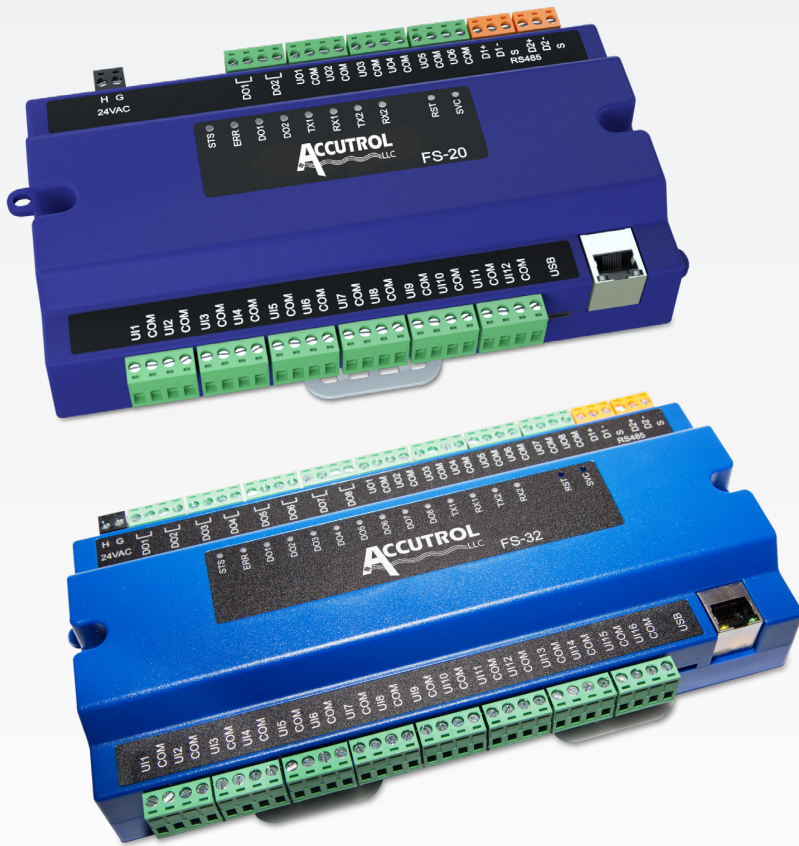




# Critical Environments Controllers

## AC8200 & AC8300

*Airflow & Temperature Controller*



### Laboratories, Life Sciences, Healthcare

- Used with AccuValve Airflow Control Valves
- Room Airflow Tracking Control
- Room Temperature and Humidity Control
- Built-in HTML5 Web Server
- BACnet®, TCOM, Modbus and Web Service
- Built-in VPN Server and Client
- 1.2GHz Quad Core Processor
- 8GB Memory
- 24V AC/DC Power
- Graphical User Interface Setup



The Accutrol AC8200 and AC8300 are versatile high-speed controllers for airflow and temperature control of laboratories, life science, healthcare and other critical environments. The AC8200 and AC8300 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:

- 1.2 Ghz Quad Core ARM 7 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.

## AC8200 Specifications

### MECHANICAL

<b>Dimensions</b>	7.8" x 4.1" x 1.7" (198mm x 104mm x 44mm)
<b>Weight</b>	15 oz. (426g)

### ELECTRICAL

<b>Power Supply</b>	24VAC ±5% or 24VDC +20%/-15%
<b>Consumption</b>	18VA
<b>Current Rating</b>	500mA @ 24VAC/DC
<b>Operating Temperature</b>	32° to 150° F (0° to 65° C)
<b>Storage Temperature</b>	-4° to 185° F (-20° to 85° C)
<b>Operating Humidity</b>	10% to 90% relative humidity, non-condensing

### INPUT/OUTPUT

<b>Universal Input</b>	12 Channels
Voltage	0-10V (±0.05V)
Current	0-20mA DC (±0.01mA)
Resistance	500-500K Ohms (±10 Ohms)
<b>Universal Output</b>	6 Channels
Voltage	0-10VDC
Current	0-20mA, Max Load Impedance 800 Ohms
Digital Mode	Max. Sinking
Current Rating	200mA
<b>Digital Output</b>	2 Channels (with LED Indicator)
Relay Contacts	SPST NO, 48VA/2A at 24 V

## AC8300 Specifications

### MECHANICAL

<b>Dimensions</b>	9.17" x 4.1" x 1.7" (233mm x 104mm x 44mm)
<b>Weight</b>	1.16 lb. (526g)

### ELECTRICAL

<b>Power Supply</b>	24VAC +/-5% or 24VDC +20%/-15%
<b>Consumption</b>	18VA
<b>Current Rating</b>	500mA @ 24VAC/DC
<b>Operating Temperature</b>	32° to 150° F (0° to 65° C)
<b>Storage Temperature</b>	-4° to 185° F (-20° to 85° C)
<b>Operating Humidity</b>	10% to 90% relative humidity, non-condensing

### INPUT/OUTPUT

<b>Universal Input</b>	16 Channels
Voltage	0-10V (±0.05V)
Current	0-20mA DC (±0.01mA)
Resistance	500-500K Ohms (±10 Ohms)
<b>Universal Output</b>	8 Channels
Voltage	0-10VDC
Current	0-20mA, Max Load Impedance 800 Ohms
Digital Mode	Max. Sinking
Current Rating	200mA
<b>Digital Output</b>	8 Channels (with LED Indicator)
Relay Contacts	SPST NO, 48VA/2A at 24 V

## Communication (AC8200 & AC8300)

### 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:

