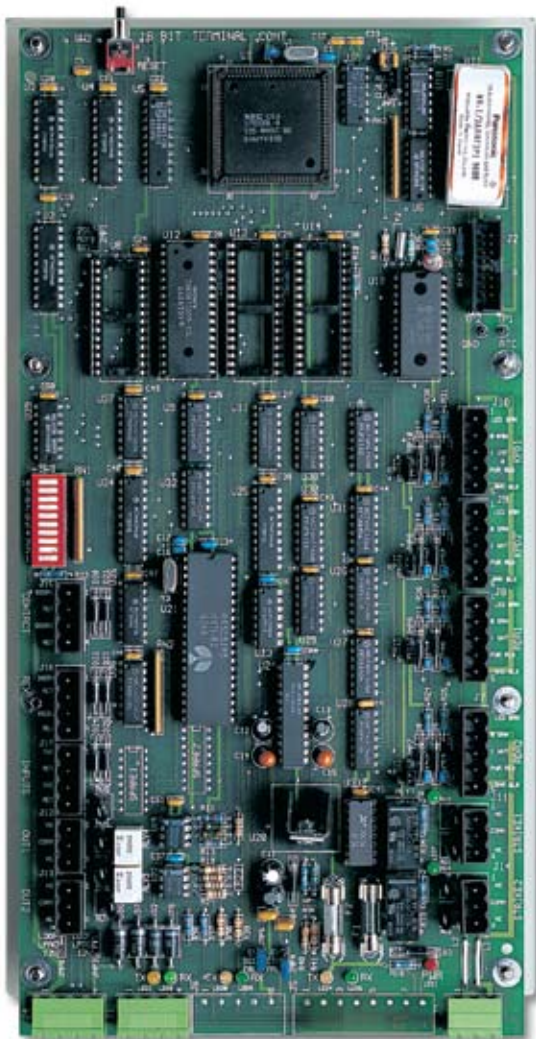


# AC-900 Main Controller

**Sielox**

- Communications manager in a Sielox controller network**
- Stand-alone 2-reader controller**
- Memory expansion to 50,000 cardholders**
- Remote dial-up capability**



The AC-900 Main Controller manages communications between the command center server and the terminal controllers. It provides all the intelligence necessary for communications as well as support for the first two readers. An integrated Terminal Controller is on-board, with all the features and performance of the AC-600 Terminal Controller.

#### **Remote operations and upgradeable memory**

Each AC-900 contains a standard memory capacity of 4,000 cardholders. The system can upgrade the number of cardholders in increments of either 20,000 or 50,000 users.

Incorporating 16-bit technology with real-time operations, this versatile, field-intelligent device can be networked to other main or terminal controllers. A single board controls all regional input/output linking and has all the capabilities to make doors fully functional. The AC-900 also supports two programmable inputs or outputs. Expansion modules are available, providing an additional 14 inputs and 30 outputs.

#### **Flexible connection options**

The device can be hardwired, interfaced with fiber optics, or addressed via dial-up phone lines. If communications are lost with the command center, the unit also maintains an event buffer. The AC-900 contains a network buffer as well.

Should power be lost, a self-contained battery allows 48 hours of data integrity. A wide range of card reader technology, including Performa® and Mirage® Proximity, Wiegand, and Magstripe readers, interface with the AC-900.

LAN/WAN connection through an optional LAN Interface Device allows controllers to communicate over a network.

# AC-900 Main Controller

## Specifications:

### AC-900 Main Controller

#### Electrical

##### Voltage

12 Volts DC ( $\pm 10\%$ ); current dissipation 300 mA max plus reader or keypad requirements

##### Battery Backup

Board-mounted battery retains RAM memory and real-time clock for up to 48 hours

##### Cable Types

RS-485	22 gauge shielded, dual twisted pair (Belden #8723)
RS-232C	9 conductor, shielded
Readers/Keypads	5 conductor, shielded, 18 gauge
Inputs	22 gauge, twisted pair, shielded

##### Cable Lengths

RS-485 Comm	4,000-foot maximum
RS-232C	20-foot maximum
To Readers	500-foot maximum
To Inputs	500-foot maximum
To Outputs	Application dependent

##### Auxiliary Output Relay Ratings

2A max at 24 VDC or 24 VAC

##### Door Strike Relay Ratings

2A max at 24 VDC or 24 VAC

#### Physical

##### Printed Circuit Board

6.0" wide  
12.0" tall

##### Metal Enclosure\*

19 $\frac{1}{4}$ " wide  
18 $\frac{1}{4}$ " tall  
4 $\frac{1}{2}$ " deep  
•  $\frac{3}{4}$ " Conduit knockouts  
• Key-operated lock

\*Mounting hardware available for custom enclosures

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#### Environmental

##### Operating Temp

0° to 50° degrees C

##### Relative Humidity

90% operating (non-condensing)

#### Features

##### Event Buffer (Standard)

Up to 4,000 events

##### Clock

Real-time clock and calendar

##### Supervised Inputs\*

Two door position inputs  
Two requests-to-exit inputs  
Two auxiliary inputs  
\*Line supervision if desired (4-states reported)

##### Relays

Two door strike SPDT dry contact relays  
Two auxiliary SPDT dry contact relays

##### Cardholders

4,000 standard  
20,000 and 50,000 with memory expansion

##### Readers

Two readers with industry standard interface  
Separate or integrated keypads

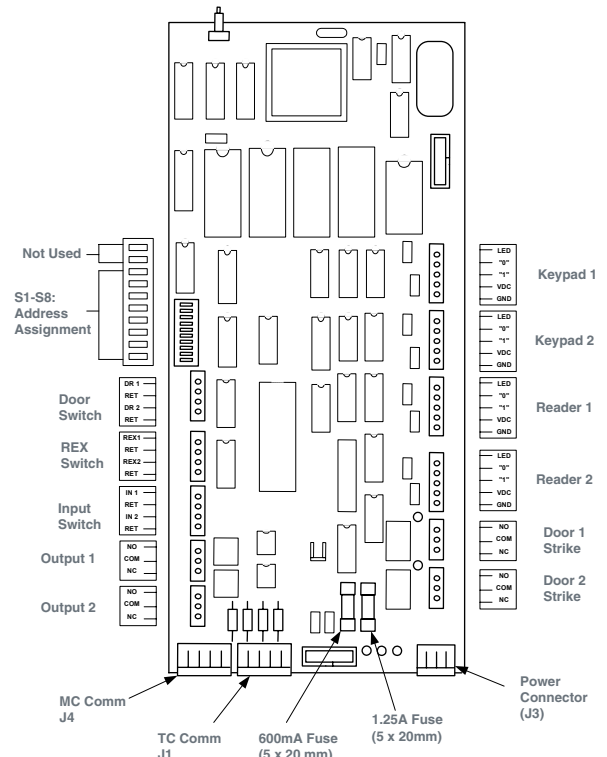
##### Doors

Two complete doors or one door with two readers  
One supervised position input per door  
One supervised request-to-exit input per door  
One SPDT strike relay per door

##### Expansion

AC-460: 14 supervised auxiliary inputs. 14 SPDR dry contact relay outputs  
AC-460E: 14 supervised auxiliary inputs. 30 SPDR dry contact relay outputs

Note: No address assignments required



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