

# Product Data Sheet

## SA-4 Stand Alone 4 Door Access Controller

The SA-4 controller sets new standards in access controller operation and functionality. The SA-4 is easy to install and offers a level of flexibility not found in other door controllers. The SA-4 is designed specifically for installers and end users.

Key features of the SA-4 include;

- 4 reader inputs
- Readily accepts most available reader types
- On board programming via;
- QWERTY keyboard and 40x2 line LCD display
- On board printer output as standard
- Fully configurable I/O with expansion options
- On board power supply and back-up battery charging facilities as standard

Can be upgraded to On-Line operation via optional Communications: Echelon, RS232, RS485, or Current loop



### Features

- 8 x Relays (non-dedicated)
- 8 x Clean Contact inputs (non-dedicated)
- User database with 24,000 user capacity
- 4K event log for each reader head
- 4 Areas
- 64 Departments
- 31 Daytypes
- 62 Weektypes
- 2 Anti-passback levels (On-line). Three APB types IN, OUT and NU (Off-line)
- Supports simultaneous multi-technology access reader technology, ie;
- Supports up to 4 card readers and 4 keypads which can be any combination of Watermark, Wiegand, Softmagnetics, etc.
- Serial printer output with selectable event printing (Off-line)
- Internal History Log of transactions and events
- 128Kb (256K option) of SRAM
- Memory backup battery (NiCad)
- System watchdog to monitor microprocessor operation
- Optional 40 x 2 line LCD display (backlight optional)
- Optional full QWERTY tactile membrane keypad
- 16 contact inputs
- 8 relay outputs expandable to 16
- Integral power supply with 'Lead Acid' charger; with load shedding to prevent battery cell damage
- PC backup and restore software (option)
- Stand alone system upgradable to On-line System;
- Optional On-line Communications; Echelon, RS232, RS485 or current loop

# Technical Specification

## Processor

- Dallas variant operating at a clock speed of 14.7456MHz

## Watchdog

- Observes system operation and restarts system when abnormal operation is detected

## Memory

- 256K bytes of read only program (ROM) memory
- 256K(Max) bytes of random access memory (RAM), battery backed by NiCad cell, providing 24,000 cardholders capacity

## Real-time-clock/calendar

- Battery backed clock calendar on-line

## Power supply

- 12.0 Vdc @ 1A Strike supply
- 12.0 Vdc @ 500mA Reader supply
- 5.0 Vdc @ 500mA ISC supply
- 13.68 Vdc @ 600mA Charger output
- Power supply is load shedding.

## Power requirements

- 240 VAC (50/60Hz ±15%)
- 120 VAC (50/60Hz ±15%) (Optional)
- Power Consumption 60VA

## Ordering Information

### Part No.

- 101004 - SA-4 Stand alone 4 door controller
- 104001 - RS485 Interface Module
- 102002 - RS232 Interface Module

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- Max Recommended Controller/Reader Distance – 100M  
(Dependent upon selected reader type and manufacturers specification)

## Environmental Specification

### Operating temperature

- Without batt. backup 0 to 55°C
- With Lead Acid batt. 0 to 40°C
- 5 to 80% RH, non-condensing

### Storage temperature

- With or without batt. 0°C to 60°C

### Output Relays

- 8 Relays 24Vdc 1A Max
- Switched current 62.5 VA

### Physical specification

- 405W X 315H X 100D (all mm.)

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