

Product Data Sheet

Sentinel 2 Door Access Controller Range

Sentinel

The Sentinel range comprises a feature rich 2 door controller in both stand alone and networkable configurations, offering exceptional user benefits. Sentinel is easy to install and maintenance friendly, with extensive reporting facilities. Sentinel comes in an aesthetically appealing and durable Polycarbonate wall mount housing for guaranteed quality and appeal. Sentinel is also available in a secure steel housing complete with a 2A power supply.

Networking Sentinel

Individual Sentinel controllers can be connected together to form a mini-network, without the need for a PC. User card information programmed into any controller is immediately updated to all other Sentinel controllers on the mini-network, ensuring synchronisation throughout. Developing a mini-network does not limit the control and reporting options available to individual Sentinel controllers; indeed the remote dial-up and PC based management software options ensure that central station monitoring and remote system control serve to increase the value added opportunities of Sentinel.

Programming tokens to doors

Sentinel allows users to programme tokens for individual doors or groups of doors, even in a network. The door group programming is simple and easy to implement, further establishing Sentinel as the system of choice where flexibility and ease of use are important.

Features include;

Sentinel 2 Door Access Control

- 2 Door stand alone controller
- Networkable, either with or without management PC
- Range of aesthetic, durable, quality enclosures
- 4 digit LED programme & status display
- 16 Key keypad
- Full PAC reader & token support
- Card entry & deletion via Master card or Keypad
- 4 user programmable inputs
- 4 user programmable 1A relay outputs
- Maximum 4,000 users
- Door open & door forced monitoring
- Alarm generation
- Configurable global input (can be used as global door release on fire alarm)
- RS232 event and alarm print output
- 4,000 event transaction event log print



Sentinel Programming

Sentinel can be programmed via the password protected controller keypad. Cards may be added or deleted via the keypad or directly at a reader, using a Master card. In every event the 4 digit LED display provided in each Sentinel gives a clear, concise indication of controller programme and operational status.

Sentinel Mini-network

- Networking of up to 16 Sentinel Controllers
- 2 wire integrated network support communications between controllers
- Independent mini-network operates as a remote network via a central station by;
- Remote communications using a wide range of methods including modem dial-up, fibre optic and hard wire links, CanBus system technology
- Automatic card database synchronisation between controllers on a network
- Extensive events reporting for system events, transactions and activities including alarms and fault conditions

Technical

Environmental Specification

Operating temperature

- 0 to 55°C
- 5 to 80% RH, non-condensing.

Storage temperature

- 0°C to 60°C

Physical specification

- Wall Mount Housing - 150W X 112H X 26D
- Steel boxed housing - 225W x 350H x 85D (all mm.)

Wiring Details

Readers

- Reader to controller wiring 24 AWG core size.
- No. of cores to meet reader requirements, see reader details or contact Morley
- Morley Proxpoint proximity reader 105051 – 6 core overall shielded cable, grounded at controller only
- Maximum distance reader-controller, according to reader operational design.

Morley proximity reader 105051 – max. 100M

Ordering Information

Stand Alone Controllers

101013 - Sentinel wall mounting 2 door stand alone controller

101014 - Sentinel 2 door ruggedised stand alone controller, c/w 2A power supply

Stand Alone to Network Upgrade (101013/4 to 101015/6)

AS9005 – Sentinel Networkable board assembly

Networkable Controllers

101015 - Sentinel wall mounting 2 door controller

101016 - Sentinel 2 door ruggedised networkable controller, c/w 2A power supply

Proximity Readers and Tokens

105051 - Morley/HID ProxPoint proximity reader

106001 - Morley/HID Proximity shell card

106002 - Morley/HID ISO proximity card

106003 - Morley/HID ISO proximity card with Magstripe

106005 - Morley/HID Proximity key fob

Other reader types are available for longer-range reading, Gemplus smart card solutions, biometric fingerprint reading, etc.

Contact Morley for further details.

Sentinel Accessories

109006 - Back-up battery 2Ah

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Morley Electronics operates a policy of continuous product improvement and reserves the right to change products without notice

Processor

- Siemens Infinion 164 running @ 20MHz

Watchdog

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

Memory

- 128K(Max) bytes of random access memory (RAM), battery backed by NiCad cell, providing 4,000 cardholders capacity.

Power requirements

- 12 V dc $\pm 10\%$
- Power Consumption (controller) 250mA max.

Networking

- Inter-Sentinel comms – High speed CAN bus transceiver
- RS232 compatible serial interface for use with;
PC – Sentinel Lite software
Modem – 3Com US Robotics 56K modem
Printer – Printers using the PCL level 5 printer language

Network Cabling

- Controller-controller network connection Twisted pair shielded cable eg: Belden 984 1Alpha 642

Power supplies

Line Voltage:	230 VAC +5% -10%
Line Frequency:	47 to 63 Hz
Harmonic Content:	Total content: 5% RMS of fundamental or less. No single harmonic to exceed 3% RMS
Transient pulses:	100 V peak maximum. 10mS duration maximum
Earth loop impedance:	Less than 10 ohms



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