

S3010 Portable Reader

OVERVIEW

The S3010 Card Reader is a hand held portable device weighing less than 2.2lbs (1kg), that can be used for ID card validation at remote sites or temporary entrances which have no power. The reader can also be used as a mobile device for random checks within pre-defined zones. The S3010 is supplied with a sophisticated battery management and communications base station.

Up to 130,000 card ID's can be held in the reader's database for differentiation between authorised and unauthorised personnel. Up to 2,000 card swipe transactions can also be stored for on-line transmission to the AC2000 central computer; this information may be used to generate statistical or ad hoc reports. The Liquid Crystal Display (LCD) provides information about card validity (e.g. Card Valid, Not in System).

The LCD backlight feature ensures that messages are legible, even when lighting conditions are poor.



S3010 Portable

FEATURES

- Industry's first portable card reader
- Hand size, lightweight and robust
- Large memory capacity, for up to 130,000 card IDs
- Internal capacity for more than 2,000 transaction events
- 4 line by 16 character display with backlight for operator information
- Full 21 way keypad
- Automatic power save function
- The S3010 Portable reader can be used with the AC2000 system in the same manner as a permanent fixed reader
- Applications include access control mustering, construction site access and guard tours

PRODUCT HIGHLIGHTS

Base Station

The S3010 base station provides a two-way communication interface between the reader and the AC2000 central computer or the webEntry controller. This allows card IDs to be loaded from the central computer or the webEntry controller to the reader database and stored transactions to be transferred back to the central computer. The database will expire after 24 hours, which means that the reader must be returned to the base station to ensure that data is kept current. The base station also provides battery management circuitry.

Battery Management

Four user replaceable rechargeable NiMH cells are held in an external compartment. These provide operational power for up to twenty hours of continuous use.

In order to extend battery life, the reader will enter Powersave Mode after a period of inactivity. The time delay from the last operation and shut down is user configurable, between 1 and 99 minutes. The reader can be re-activated by simply pressing the "Start" button on the keypad. When the reader is plugged into the base station, the batteries are "fast charged" if necessary under both temperature and voltage control.

TECHNICAL SPECIFICATIONS

PHYSICAL

Size	
- Reader Enclosure	(max. including Wiegand Head) 240 x 100 x 100mm (9" x 4" x 2")
- Base Enclosure	210 x 100 x 100mm (8" x 4" x 4.33")
Weight	Reader less than 1 kg (2.2lbs) Base Station less than 400g (1lb)
Housing	ABS Plastic Case
Colour	Light Grey
Power	
- Voltage	9 – 15Vdc
- Current Consumption	140mA (passive), 250mA (peak)
Power	
- Reader Power	Charging Current Consumption: 1.1A Active Consumption: 60mA Power Save Mode: Minimal
- Base Station	When charging batteries: 1.4A, 10Vdc
- Charge Time	30 to 50 minutes, overcharge protected
- Fully charged	Usage 9-20 hours depending on read head
- Battery Type	1.2V NiMH rechargeable batteries
- Battery Charging Pins	User Replaceable
LCD Display	4 line by 16 character display with backlight
Keypad	21 key membrane keypad.

FUNCTIONALITY

Memory Database	2MB
- Cardholders	Storage of up to 130,000 cardholders on the handheld reader.
- Transactions	Up to 2,000 transactions in offline operation.
Read Head Specification	
- Card Motion	Manual swipe/Insert/Presentation (depending on head used)
- Available Head Technologies	All Wiegand encoded cards Magnetic stripe ISO2 Barcode using external reader Proximity Smart Card
Configuration	Operational parameters are downloaded from host controller via the base station. Some configuration setting can also be set using the keypad.

COMMUNICATION INTERFACE

Base Station Communications	Bi-directional optical link between reader and base station
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PRODUCT CODES

RDR/032/201	S3010 Portable Reader (MiFare)
RDR/032/101	S3010 Portable Reader (Prox)
RDR/039/100	S3010 Portable Reader Base

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