CEM SYSTEMS

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S3020 Portable Reader
Portable Handheld Card Reader

OVERVIEW

The S3020 Portable Reader is a lightweight, waterproof, and rugged hand-held card reading device. It can be used for ID card validation at remote sites or temporary entrances which have no power, and can also be used as a mobile device for random checks within pre-defined zones.

Up to 200,000 card ID's can be held in the reader's database for differentiation between authorised and unauthorised personnel. Up to 8,000 offline card swipe transactions can also be stored for on-line transmission to the AC2000 system via built-in 802.11g WiFi connection, (supports WPA2-AES Encryption).

Card technologies supported include 125kHz HID Proximity, 13.56MHz MiFare (also supports DESFire CSN 32bit), Picopass and iClass.

A large full colour TFT touchscreen provides quick and easy navigation with the onboard menu options, and also provides information about card validity (e.g. Card Valid, Not In System, and Wrong Timezone).

S3020
Portable
Reader

FEATURES

- Hand size and robust, weighing only 550 grams

- Large memory capacity for up to 200,000 card records

- Internal capacity for up to 8,000 offline transaction events

- Full colour TFT touchscreen with stylus pen

- 802.11g WiFi (using WPA2-AES Encryption)

- Battery powered wireless operation

- Deluxe protective carry case with straps

- Spare batteries available

- Supplied with charging cradle

- Applications include construction site access, temporary entrance gates, guard tours and a variety of off-site locations

- Reader 'Occupancy Mode' for spot checks in a defined area

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PRODUCT HIGHLIGHTS

Battery Charging
The S3020 Portable Reader is supplied with a charging cradle which provides a quick and easy way to place the unit on charge, with typical charge time from empty up to 12 Hours, providing up to 16 hours of use. Whilst in this cradle it will connect to the AC2000 server/controller to upload card transactions and also receive any new or updated cardholder records.

Rugged Design
The S3020 Portable Reader has been designed with strength in mind, with a compact and robust enclosure. It comes in a strong polycarbonate casing with heavy duty protective carry case and straps.

Multiple Card Reading Support
The S3020 Portable Reader can be ordered in a variety of different models, each providing different card reading technology, for example HID 125kHz Proximity, MiFare 13.56MHz (also supports DESFire CSN 32Bit), High Security PicoPass (Sector Ready) and iClass.

Mobility
The S3020 Portable Reader can be used in a wide range of scenarios where mobility is paramount. For example, it can be used by a security guard either in a patrolling mode within pre-defined zones, or at fixed temporary locations where there is no power, to verify that a cardholder is authorised to be at that location and to record their presence. Other scenarios include construction sites, bus and train stations, and random checks within large commercial sites.

Reader Occupancy Mode
The S3020f reader features an 'Occupancy mode' which provides the ability to do spot checks on a set group of people in a defined area, e.g. a bus or plane. It ensures that each person physically in the area is present via their own card privileges and prevents card sharing.

TECHNICAL SPECIFICATIONS

PHYSICAL

Size	205 x 95 x 45mm
Weight	550g (19oz) with connectors
Housing	Flame retardant polycarbonate containing fully encapsulated electronics.
Colour	Black and Yellow
Power	
Voltage	2.4VDC
Battery	4000mAh NiMH rechargeable Pack
Charge Time	Up to 12 Hours
Fully Charged Up to 16 Hours (depending on use).	
Battery charging indicator bar graph.	

Environmental	
IP Rating	IP67
Temperature	-30 °C to 60 °C (-22 °F to 140 °F)
Humidity	MIL-STD-810F, Method 507.4
Display	3.5inch VGA TFT 320x240pixels Touch Screen

FUNCTIONALITY
Read Head Specification

Card Motion	Manual Swipe/Presentation
Available Head Technologies	HID 125kHz Proximity MiFare Smartcard 13.56MHz DESFire Smartcard CSN 32Bit PicoPass Sector Read iClass

Memory	64MB Onboard non-volatile NAND Flash
Database	
Cardholders	Storage of up to 200,000 cardholders.
Transactions	Up to 8,000 transactions in offline operation.
Configuration	Cardholder database is downloaded from host server/controller. Some configuration settings can also be set using the touchscreen.

COMMUNICATION INTERFACE

To System Host	Encrypted TCP/IP using 802.11g WiFi

PRODUCT CODES

RDR/302/001	125kHz HID Proximity
RDR/302/005	13.56MHz MiFare (also supports DESFire CSN 32Bit)
RDR/302/006	Picopass
RDR/302/008	iClass
Minimum system Requirements	AC2000 SE v4 upwards (with RTC) AC2000 AE v4 upwards (with RTC) AC2000 Lite v5.7 upwards

Product specifications and availability is subject to change without notice. Certain product names mentioned herein may be trade names and/or registered trademarks of their companies.

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