

GemAccess 608 card reader

**A card reader
for all access-control
requirements.**



The GemAccess 608 is a contactless smart-card reader, purpose-designed to fit physical access-control requirements. It is ideal for indoor use, plus weatherproofed for outdoor siting. GemAccess 608 readers are easily mounted on walls (even metallic surfaces, which

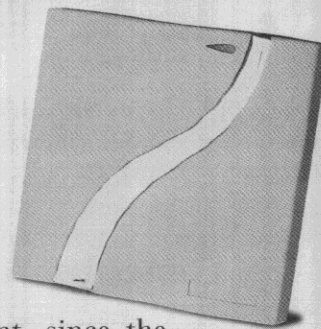
have no effect on device operation). They feature multicolor LED pilot lights and a buzzer, and interface easily with standard access-control systems. Their capacity to write information into the contactless card means that multiple extra functions can be added that go way beyond simple access control.

[The contactless
blend of high security
and easy entry]

The GemAccess 608 offers a high degree of security, both in reading and writing functions, and the possibility of multiple applications.

A smart answer

- Easy to use and ergonomic thanks to contactless technology
- Highest level of data-exchange security
- Cards adapt to optional security features (secret codes, biometric identification) to suit any requirement
- Flexible data management, since the reader writes into cards (permanently interdicts a card or stores user-movement data on cards)
- Complies with ISO 14443 standards for contactless technology



Simple and flexible

Simply holding your card within a few inches of the GemAccess 608 opens all doors. With the same simplicity, you can have payment functions for vending machines or canteens, and manage time and attendance. In the most advanced applications, the GemAccess 608 becomes an information channel to the cardholder, by interfacing with a "kiosk" system.





Secure access at your fingertips

New applications are added in stages, with no need to change the readers. This makes GemAccess 608 the most flexible reader for future upgrades.

Contactless is best

Contactless is the best technology choice for access control. It simply means there is no physical contact between the card and the reader: the card goes immediately into action as soon as it is within a few inches of the reader. Data is exchanged at high speed through radio frequency. It is the most ergonomic card for users and so the most easily accepted. Contactless-card technology means less vandalism, no wear of card or reader and minimum maintenance.

GemAccess 608 advantages

- High baud rate: 106 Kbaud/s
- Anticollision feature: allows identification of and communication with more than one card

- High security (ISO 9798-2): mutual card-reader authentication and data encryption based on secret-key recognition, plus each card has a unique, permanent serial number
- Multiapplication capacity: card-memory structure has independent sectors, each with specific secret keys, allowing different secured applications on a single card.

Communication modes

The GemAccess 608 communicates with smart, contactless ISO-standard cards: GCL8K (8 Kbits) and GCL300 (384 bits), dual technology (contact/contactless) ISO-standard GemTwin8K and 64K cards, and Keyring 8K tags. Future option: Combicard 1.

Technical specifications

Reading range	• 8 to 10 cm for read/write communication
Dimensions	• 18 x 18 x 3 cm
Physical resistance	• mechanical resistance IP5 • water resistance IP55 • temperature: -20°C to +70°C
Electrical characteristics	• power supply 12V DC • power consumption <300 mA
Multiprotocol compatible	• RS232 • RS485 • Wiegand
Process frequency	• 13.56 MHz
Baud rate	• 106 Kbaud/s

Two kits are available:

- GemAccess Evaluation Kit
- GemAccess Development Kit



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