



CS SMARTCARD READER

General

The CS Technologies contact smartcard reader provides a versatile and flexible way to read a wide variety of smartcards. Often smartcards are used by educational and other institutions for a variety of purposes. Using the CS smartcard reader allows these cards to be used for access control.

The smart card reader is easily configured using a programming keypad. It provides output in the following formats:

Wiegand interface mode In this mode the controller sends the card information out in standard 34-bit wiegand format. The information consists of a start bit, 16-bit site code, 16-bit card number and a stop bit.

Clock and data interface mode In this mode the controller converts the appropriate card information to clock and data format, emulating a mag-stripe reader. This allows the smartcards to be used with just about any access control or security system available.

RS232 interface mode In this mode the controller sends the card number information out in RS232 format for interfacing to a PC, point of sale device etc.

The smart card reader reads a variety of unique ID's from the card depending on the type of card. Currently the reader supports the following card types:

Infiner/Absec This card type is used in many different schools worldwide. The reader uses the unique card number to identify the user. No additional programming of the card is necessary.

Proton card number The proton card scheme is used by many credit card suppliers. When in Proton mode the card number transmitted is the low 8 digits of the Proton e-Purse ID.

eCard number eCard uses the proton scheme but adds a unique eCard number to the card, as used by NSW TAFE. 8 digits of the eCard number are transmitted as the credential identifier in this mode.

Uni Card card number - Many universities have cards which incorporate a chip for student identification. In many cases these cards are compatible with the CS smartcard reader. There are a couple of possible modes - a 'student number' mode where the student id is encoded onto the card, and the reader transmits this (32-bit) number as the card identifier. For other University card applications a site code is also encoded, and when the reader is in this mode it transmits a 16-bit site code and a 16-bit card number as the credential.

The reader can be purchased pre-configured for a particular reader type and interface mode. Configuration of the system is done using a low-cost convenient keypad if necessary.



Features

- Durable steel case
- Easy to use, with convenient smartcard guide.
- Reader uses high quality 'landing' contacts to extend reliability and card life
- Attractive powder-coated/lexan enclosure
- Indication LED – bicolour, indicates that a card has been read, and can also be driven by a host access control or security system.
- Tamper-proof and tamper-evident construction
- Easy installation
- Compatible with any access control system
- Easily configured for a variety of output modes and card formats.
- Reads Infiner, Proton (purse ID), Proton (eCard ID), Unicard (card number) and Unicard (sitecode/card number) cards
- 100% Australian made and designed

Specifications

Power supply:	12VDC
Current Consumption:	150mA maximum
Temperature range:	0°C to 70°C
Humidity range:	0 to 95% relative non-condensing
Dimensions:	110mm x 49mm
Shipping weight:	300g
Housing:	Powder-coated steel with lexan overlay
Interfaces:	keypad interface for programming
Smartcard formats	Infiner (card ID) Proton (purse ID) Proton (eCard ID) Unicard (card number) Unicard (site code/card number)
Output formats:	RS232 (9600 baud), Wiegand (34 bit), Clock and Data (ABA track 2 format)
Cabling Smartcard	Smartcard reader to Controller – shielded 6-core cable - max 100m



Defining the Future of Access Control

