

# CEM Validation Readers

## Features that make a difference:

- Cards can be enrolled onto the AC2000 system in seconds.
- Support for all major card technologies including 125 kHz Proximity, iClass / iClass SE, Mifare, or DESFire smart cards.
- Card definitions and formats are easily configured locally using integrated keypad.
- Backlit Monochrome Graphic LCD allows meaningful messages to be displayed.
- Can be utilized to enhance client workstation login authentication.
- Use any online card reader to validate cards onto the AC2000 integrated security management system.



**S610f Validation Reader**



**S610s Validation Reader**

CEM Validation readers are used to capture card numbers so that personnel can be associated with an ID card on the CEM AC2000 security management system. As part of the enrollment and card validation process, CEM dedicated validation readers or online readers can quickly validate ID cards onto the system.

Taking away the manual process of loading card numbers, CEM dedicated validation readers and online readers enable cards to be added to the AC2000 system in seconds.

Validation readers are also used to validate cards on the AC2000 Vehicles and Visitors application.

CEM has a range of dedicated validation readers that support all major card technologies, including HID 125 kHz Proximity, Mifare/DESFire (CSN) and HID iClass / iClass SE card technologies.

Alternatively any online reader can be used for card validation if required depending on system requirements.

## How does the validation process work?

Using the AC2000 Personnel / VIPPS (Visual Imaging & Pass Production System) application, cardholder's details, photograph and signature are entered into the AC2000 database. A feature of the AC2000 security management system is that each card must be validated before it can be issued. To assign an ID card the security administrators select the Validate card option on the AC2000 software and swipe the card on the validation reader. Alternatively a user can type the address of the nearest online CEM reader and validate the card on that reader. This process is completed all in one location

without toggling between separate client applications, providing a fast and efficient way to enrol cardholders onto the system.

## S610s Dedicated Validation Reader

The S610s Validation reader supports 125 HID kHz Proximity, Mifare/DESFire (CSN), CEM Desfire and HID iClass / iClass SE cards. Other card technology options are available if an external third party reader is fitted.

This is implemented by connecting to the S610s validation reader's on-board weigand interface. The S610s validation reader connects to the AC2000 enrollment workstation via a RS232 serial cable. The S610s validation reader is supported on all AC2000 access control systems.

## S610f Dedicated Validation Reader

The S610f fingerprint validation reader is used to enroll cardholders and capture their fingerprint templates onto the AC2000 system. The S610f validation reader enables both the validation of the card and the verification of a cardholders biometric fingerprint template. The S610f connects to the AC2000 workstation via LAN using an Ethernet TCP/IP connection.

## Additional Client Login Authentication

Additionally a CEM validation reader connected to a local AC2000 client workstation can be used to increase security with the AC2000 workstation software. When configured the user must swipe on the connecting validation reader in addition to entering a valid username and password providing an extra layer of security.

Specifications	S610s Dedicated Validation Reader	S610f Dedicated Validation Reader
<b>Physical</b>		
Size	142 x 115 x 44mm (5.6 x 4.5 x 1.7")	190 x 120 x 44mm
Weight	370g (13oz) with connectors	590g with connectors
Housing	Flame retardant polycarbonate containing fully encapsulated electronics	Flame retardant polycarbonate containing fully encapsulated electronics
Colour	Dark and Light Gray	Dark and Light Gray
<b>Power Requirements</b>		
Voltage	9 – 14Vdc	9 – 14Vdc
Current Consumption	200Ma Passive, 320Ma Active	260Ma Passive, 480Ma Active
<b>Environmental</b>		
IP Rating	IP65	IP30
Temperature	-20°C to 50°C (-4°F to 122°F)	0°C to 55°C (32°F to 131°F)
Humidity	Unlimited, also condensing	Unlimited, also condensing
LED Indicators	Three high intensity LED indicators, Red, Amber and Green	Three high intensity LED indicators, Red, Amber and Green
LCD Indicators	32 x 122 dots Monochrome Graphics LCD with backlight	32 x 122 dots Monochrome Graphics LCD with backlight
Keypad	12 character, standard layout, tactile response keypad	12 character, standard layout, tactile response keypad
<b>Communication Interface</b>		
To Work Station	RS232 serial cable to PC serial port (Supplied) (RS232 to USB supported – Not Supplied)	10/100 Base-T TCP/IP using CAT5 Unshielded twisted pair cable (Not Supplied)
Connection	DB9	RJ45

## Ordering Information

Product Code	Description
RDR/280/101	S610 Validation Reader (125kHz HID Proximity / CEM 37bit)
RDR/280/608	S610 Validation Reader (13.56MHz HID iClass SE)
RDR/280/105	S610 Validation Reader (Mifare CSN / CEM DESFire)
RDR/280/109	S610 Validation Reader (No Read Head Technology)
RDR/615/201	S610f Fingerprint Validation Reader (125 kHz Proximity)
RDR/615/205	S610f Fingerprint Validation Reader (Mifare CSN / CEM DESFire)
RDR/615/208	S610f Fingerprint Validation Reader (iClass)

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