



ACL800 reader series

Access control readers

Best value and optimal flexibility for small-scale access control





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Introducing the new range of ACL800 readers with expanded functionality and refreshed design, to offer optimal flexibility and value in smaller-scale environments. Whether for a store, a small office or a guest house, ACL800 is all that you need for entry-level card, PIN or biometric access control.

Stand-alone versions can be paired and offer everything you need around a single door. Software is not required as programming can be done via the keypad, badge swipe or biometric fingerprints utilizing multiple authorised reads to set the unit in configuration mode. To connect into any existing access control system, such as UTC F&S's TruPortal, there are readers with Wiegand output to allow the credential string from a card, PIN or biometric to be read for security rules to be applied. In order to program the readers in such a configuration, the ACL800 BioManager is available, a simple and intuitive to use interface for Windows.

Available in four colours, the ACL800 readers and request to exit buttons can either be surface-mount, to position on a wall, or flush-mount in a European or UK electrical gang-box for a 'sunken' finish. The designs are neutral yet distinctive, with square LED lighting offering the user a clear indication of access granted or denied.



Stand-alone range

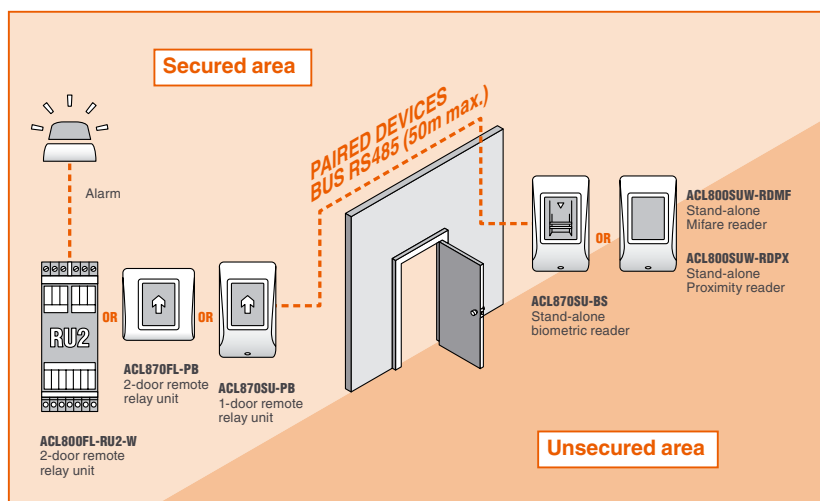
Stand-alone devices are ideal when installed on a few doors. If needed on multiple doors, then you might consider using the Wiegand range of solutions. There is no need to connect it to a PC or an access control panel. The ACL800 range is easy to install. For example, readers installed in a “unsecured area” can be paired with a request-to-exit push button that is installed in a “secured area”. When pairing you make sure that the communication between both devices is encrypted, and you will use the remote relay from the push button in the “secured area” to open the door. The relay of the reader in the “unsecured area” is not used.

Features

- Fingerprints capacity: 100 (BS)
 - 1 or 2 relay integrated (2A – 24 VAC/VDC)
 - Adjustable door time (1 to 60 sec or latch)
 - Surface or flush mount
 - Backlight ON/OFF
 - Buzzer ON/OFF
 - Colors: silver, charcoal, black
 - Sensor: swipe capacitive with up to 508 dpi image resolution
 - Wiring: resin potted with 50cm cable
 - Visible signal: large LED
 - Power: 9-14 VDC
- ### Entry mode:
- **Finger:** programming via finger swiping
 - ACL870SU-BS/ACL870FL-BS: 98 fingerprints capacity (+ 1 admin, 1 installer) (not available for touch capacitive version)
 - **Finger or PIN code:** programming via finger swiping OR via keypad
 - ACL875SU-BS/ACL875FL-KP-S: 98 codes (from 1 to 8 digits)
 - **Finger or card:** programming via finger swiping
 - Reading distance: 2 to 5 cm
 - ACL870SU-BSPX: card type 125kHz: Prox EM 4002/4100, CASI or HID
 - ACL870SU-BSMF: card type 13,56MHz: Mifare CSN (Classic, Ultralight, DESFire)
- ### Pairing devices:
- ACL800FL-RU2: 2 RTE inputs for activating 2 relay outputs
 - ACL870FL-PB: 2 relays and 2 RTE button inputs
 - ACL870SU-PB: 1 relay and 1 RTE button input
- ### Surface mount:
- Operating temperature: -20°C to +50°C
 - IP rating: IP65
 - Dimensions (mm):
 - 92x51x25 (single housing),
 - 100x94x30 (dual housing)

Programming

The keypad and biometric readers have their own programming menu. If authorised to enter programming mode, the keypad user codes, 2 relay outputs and timer settings are programmed via the keypad keys with led and buzzer feedback. The biometric readers have also their own menu structure where you need an “Admin Finger” to add/delete fingerprints, manage the two relay outputs and timings, program the buzzer and backlight.



Readers & keypads

ACL870SU-BS



ACL875SU-BS



ACL870SU-BSPX/ ACL870SU-BSMF



ACL875SU



Remote relay unit

ACL800FL-RU2-W

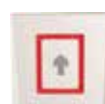


Exit devices

ACL870SU-PB



ACL800FL-PB





Wiegand range

By using the TCP/IP to RS485 converter (ACL800FL-CONV-W), up to 31 Wiegand devices can be daisy-chained over RS485. ACL800 BioManager is managing the converter (and it's connected devices) through a TCP/IP connection. When you need more devices, then simply add another converter. The access rights can be set-up and uploaded from ACL800 BioManager to all the Wiegand devices connected to the converter. You have the option to either store the fingerprint templates in the reader or on the credential for privacy reasons.

Features

- Fingerprints capacity: 100 (BS) 508 dpi/9500 (BC)
- Programmable Wiegand output (24 to 80 bits)
- **Entry mode:**
 - **Finger:**
 - ACL800SUW-BS/ACL800SUW-BC/ACL800FLW-BS
 - **Finger and/or PIN code:** (from 1 to 8 digits)
 - ACL805SUW-BS/ACL805SUW-BC/ACL805FLW
 - **Finger and/or card:**
 - Reading distance: 2 to 5 cm
 - Wiegand 32 or 56 bit according to the card length
 - **Finger or card:** ACL800SUW-BSPX/ACL800SUW-BCPX/ACL800FLW-RDPX: card type 125kHz: Prox EM 4002/4100, CASI or HID
 - **Finger and/or card:** ACL800SUW-BSMF/ACL800SUW-BCMF/ACL800FLW-RDMF: card type 13.56MHz: Mifare CSN (Classic, Ultralight, DESFire)
- Surface or flush mount
- ACL800FL-CONV-W: TCP/IP to RS485 converter to daisy-chain the Wiegand devices
- Configuration is done by ACL800 BioManager software application
- Backlight ON/OFF
- Buzzer ON/OFF
- Green and Red LED: externally controlled
- Orange led: idle mode
- Colors: silver, charcoal, black
- Wiring: resin potted with 50cm cable
- Visible signal: large LED
- Power: 9-14 VDC

Surface mount:

- Operating temperature: -20°C to +50°C
- IP rating: IP65
- Dimensions (mm):
 - 92x51x25 (single housing),
 - 100x94x30 (dual housing)

Readers & keypads

ACL800SUW-BS



ACL800SUW-BC



ACL805SUW-BS



ACL805SUW-BC



ACL800SUW-BSPX/
ACL805SUW-BSMF



ACL800SUW-BCPX/
ACL800SUW-BCMF



ACL805SUW



ACL800SUW-RDMF/
ACL800SUW-RDPX



ACL800FL-CONV-W



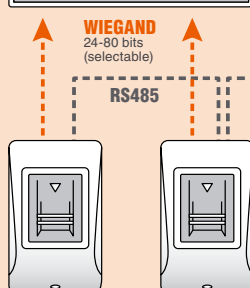
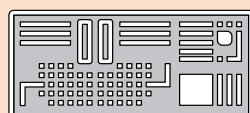
ACL805SUW-RDMF/
ACL805SUW-RDPX



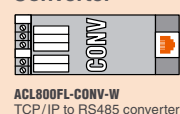
ACL800 BioManager

Fingerprint and reader management software for biometric readers when used with third party access control systems. Fingerprint enrolment is done from any networked biometric reader or from a USB desktop enrolment unit. The fingerprints could be sent to one or all biometric readers in the network. ACL800 BioManager is a free application and also manages the access levels. Compatible with: Windows 7, Windows 8 and Windows 10.

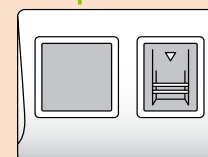
To 3rd party access system



Converter



Used for initial configuration of biometric readers.



ACL800-BC-USB-B - ACL800-BS-USB-B
Card and fingerprint enrollment reader



Flush mount series range

Stand-alone

ACL875FL-KP

- ABS housing
- 99 codes
- Backlit metallic keys
- 2 relay (3A/24VDC) and 1 request-to-exit button
- Tamper protection
- Power: 12-24 VDC; 15-24 VAC



ACL870FL-BS

- Swipe capacitive sensor
- 100 templates memory
- Adjustable Wiegand (24-80 bits)
- Configuration via software ACL800 BioManager
- Power: 9-14 VDC



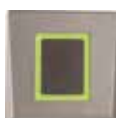
ACL800FL-PB

- Mild steel touch sensitive request-to-exit button
- Large square LED for status visual indication
- Relay output On/Off or Timed (3, 5 or 10 seconds)
- 1x relay (NO/C/NC) 2A at 24V DC
- Power: 1x12-24 VDC; 15-24 VAC



Features

- Flush mount frames: ABS, single EURO or UK frame, horizontal or vertical dual EURO frame
- Colors: silver, charcoal and white
- Installation: in an electrical Euro or UK gang box
- Wiring: terminal strip
- IP rating: 40 (indoor usage)
- Operating temperature: 0°C to +40°C



Wiegand

ACL805FLW

- Wiegand 8bit per key, Clock & Data
- Backlit keys
- Power: 9-14 VDC
- Configuration via software ACL800 BioManager

ACL800FLW-BS

- Swipe capacitive sensor
- 100 templates memory
- Adjustable Wiegand (24-80 bits)
- Configuration via software ACL800 BioManager
- Power: 9-14 VDC

ACL870FL-PB

- Mild steel touch sensitive request-to-exit button
- Large square LED for status visual indication
- 2 relay remote unit and 2 request-to-exit button
- Output: 2 x relay (2A/24 VAC)
- Door time: pulse (1 to 60 sec) or toggle (ON/OFF)
- Backlit: green (door opened) – red (door closed)

ACL800FLW-RDPX/ACL800FLW-RDMF

- Wiegand proximity/Mifare readers
- Wiegand 32 or 56 bit according to the card length
- RDPX model: 125kHz EM 4002/4100, HID and CASI Prox. as standard
- RDMF model: Mifare CSN (Classic, Ultralight, DESFire)
- Configuration via software ACL800 BioManager
- Large square LED for status visual indication
- Power: 9-14 VDC

Compatibility chart

Stand-alone readers						
	Combination (2 factor authentication)			Remote electronic (pairing)		
Partnumber	ACL805FLW	ACL800FLW-RDPX	ACL800FLW-RDMF	ACL870FL-PB	ACL870SU-PB	ACL800FL-RU2
ACL875FL-KP	No	No	No	No	No	No
ACL800FL-BS	Yes	Yes	Yes	Yes	Yes	Yes
ACL870SU-BS	No	No	No	Yes	Yes	Yes
ACL875SU-BS	No	No	No	Yes	Yes	Yes
ACL870SU-BSPX	No	No	No	Yes	Yes	Yes
ACL870SU-BSMF	No	No	No	Yes	Yes	Yes
Wiegand readers						
	Combination (2 factor authentication)					
Partnumber	ACL805FLW	ACL800FLW-RDPX	ACL800FLW-RDMF			
ACL805FLW	No	Yes	Yes			
ACL800FLW-RDPX	Yes	No	No			
ACL800FLW-RDMF	Yes	No	No			
ACL800FLW-BS	Yes	Yes	Yes			
ACL800FLW-BC	Yes	Yes	Yes			



The flush mount series range :
choose your reader and customize it as desired

1 Electronics



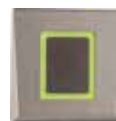
- Wiegand or stand-alone
- Easy installation: compatible with single or dual electrical EURO or UK gang boxes

2 Flush mount frames



- The flush mount frames are available in different formats: single, dual, horizontal dual or vertical dual to combine different technologies in an esthetical design

3 Product



1 Electronics

ACL875FL-KP-S



ACL805FLW-S



ACL800FLW-RDPX



ACL800FLW-RDMF



ACL870FL-PB-S



ACL800FL-PB



ACL800FLW-BC



ACL800FLW-BS



2 Flush mount frames

ACL800FL-1F-EU



80 x 80 x 9 mm

ACL800FL-1F-UK



86 x 86 x 10.5 mm

ACL800FL-2FH



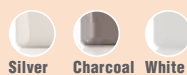
151 x 80 x 9 mm

ACL800FL-2FV



80 x 151 x 9 mm

Available in 3 different colors



	ACL800FL-1F-EU	-S	-G	-W
	ACL800FL-1F-UK	-S	-G	-W
	ACL800FL-2FH	-S	-G	-W
	ACL800FL-2FV	-S	-G	-W



3 Product

A few examples of combinations:



And many more...

firesecurityproducts.com