ACL800-BC-USB Desktop Proximity/Mifare and Biometric Capacitive Enrollment Reader Installation Sheet



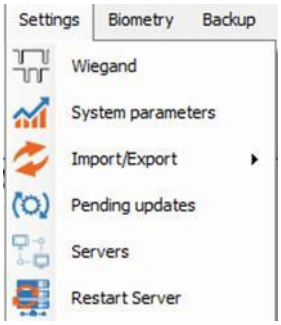
Description

ACL800-BC-USB is an USB desktop fingerprint and Proximity/Mifare reader that enables easy fingerprint and card enrollment. The USB desktop reader is used for transfer of the fingerprint to the ACL800 BioManager software, writing the same fingerprint into a Mifare card, reading the card details, and reading the card UID. The fingerprints are stored in the ACL800 BioManager software and can be uploaded in the installed readers, not in the desktop reader.

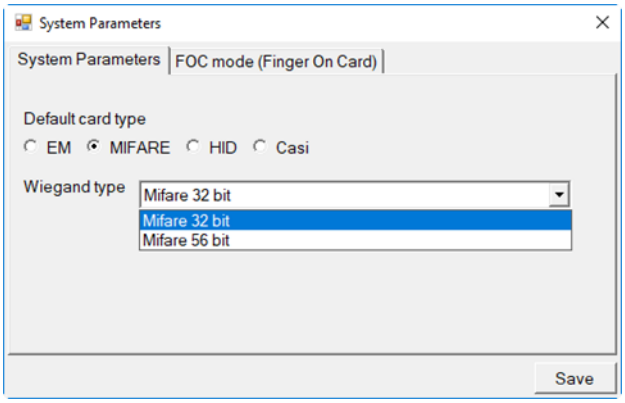
Enrolling cards

Plug the desktop reader in the PC. The desktop reader is installed automatically like an USB device.

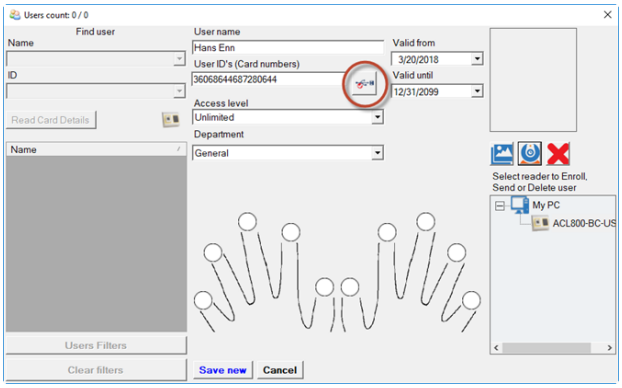
1. Open the ACL800 BioManager software.
2. Go to Settings > System parameters.



3. Select the type of the card and the Wiegand type.



4. Place and leave the card (tag) on the Desktop Reader.
5. Go to Users, select “New User”, put name and click on the USB Icon. The ID Number will be presented in the field “User ID’s (Card numbers). Click “Save new”.

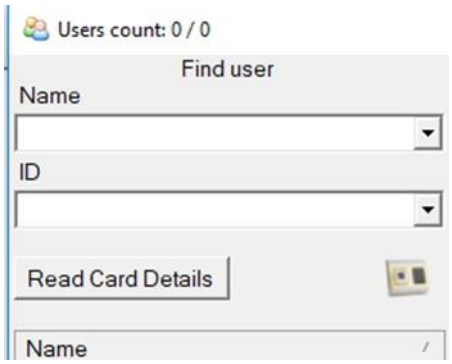


© 2025 Aritech

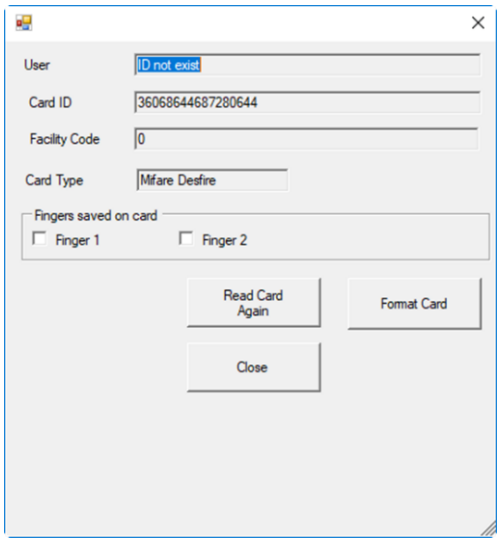
P/N 1073492-EN • REV C • ISS 17JUL25

Read Card Details

1. Place and leave the card (tag) on the Desktop Reader.
2. Go to “Users”. Click on “Read Card Details”.



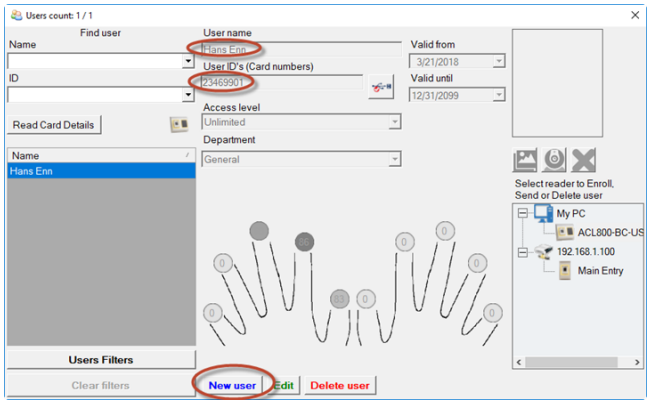
The software will show the type of the card, its serial number, if the Card ID is already enrolled or not and if the card has written fingerprint inside the memory (Mifare Cards Only).



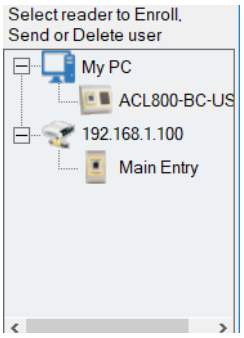
Enrolling Fingerprints from Desktop Reader ACL800-BC-USB

Plug the desktop reader in the PC.

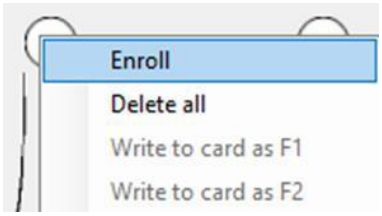
1. Open the Users Window and click on “New User”. Put a name, ID (card number).



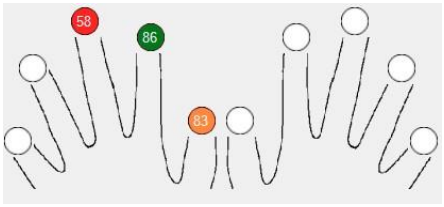
2. Select the USB desktop Reader (with left click).



3. Right click on the fingertip and select enroll. Place the finger on the desktop reader.



4. The fingertip will turn red, orange or green, with the percentage of successful enrollment shown next to the fingertip.



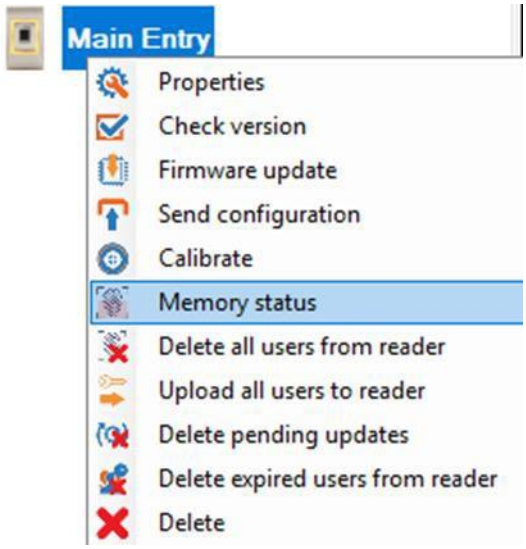
5. Repeat point 3 for each finger that should be enrolled.
6. Click on “Save New” and the fingerprints will be sent automatically to all biometric readers where that user has access, for example, to all the readers according to the Access Level assign to that user.

If the reader is offline, the fingerprints will be sent upon the connection that is established between the ACL800 BioManager server and the reader. No need for additional enrollment or actions. The fingerprints will be sent as soon as communication is established.

Example: If the user has “Unlimited” Access level then the fingerprints will be sent to all readers, if the user has Access Level only for Reader1 and Reader 3 then the fingerprints will be sent only to those two readers.

P/N 1073492-EN • REV C • ISS 17JUL25

Note: To check if all the fingerprints are sent to the reader, right click on the reader and select “Memory Status”.



In the event window a line will appear indicating the number of fingerprints stored in the reader.

Note: If more fingerprints are added for one user, all fingerprints will send the same Wiegand Code to the controller, the one written in the field User ID (Card numbers).

Specifications

Operating voltage	USB powered
Compatibility	With biometric readers with capacitive sensor (ACL800SUW-BS, ACL805SUW-BS, ACL800SUW-BSPX, ACL800SUW-BSMF)
Support for 125 kHz	- EM Proximity Cards 125kHz - HID Prox - Casi Prox
Support for 13,56 MHz	- Mifare Classic 4UID 1K & 4K (7UID supported) - Mifare Ultralight 4UID 1K & 4K (7UID supported) - DesFire EV1 2K, 4K & 8K
Windows compatibility	Windows 7, 8, 10
Operating frequency	125kHz, 13.56 MHz
Card technology	CSN only for the technology: Mifare Classic, Mifare Plus, Mifare Ultralight, Mifare DESFire
Read range	Up to 6 cm, depending on the card type and quality
Dimensions (W x H x D)	100 x 94 x 30mm
Temperature	−20 to +50°C
Relative humidity	0 to 95% noncondensing
IP rating	IP40
Shipping weight	120 g
Product weight	50 g

Regulatory information

Manufacturer	KGS Fire & Security B.V. Kelvinstraat 7, 6003 DH Weert, Netherlands

Product warnings and disclaimers	THESE PRODUCTS ARE INTENDED FOR SALE TO AND INSTALLATION BY QUALIFIED PROFESSIONALS. KGS FIRE & SECURITY CANNOT PROVIDE ANY ASSURANCE THAT ANY PERSON OR ENTITY BUYING ITS PRODUCTS, INCLUDING ANY “AUTHORIZED DEALER” OR “AUTHORIZED RESELLER”, IS PROPERLY TRAINED OR EXPERIENCED TO CORRECTLY INSTALL FIRE AND SECURITY RELATED PRODUCTS. For more information on warranty disclaimers and product safety information, please check https://firesecurityproducts.com/policy/product-warning/ or scan the QR code.
	CE
European Union directives	KGS Fire & Security hereby declares that this device is in compliance with the applicable requirements and provisions of all applicable rules and regulations, including but not limited to the Directive 2014/53/EU. For more information see: firesecurityproducts.com
REACH	Product may contain substances that are also Candidate List substances in a concentration above 0.1% w/w, per the most recently published Candidate List found at ECHA Web site. Safe use information can be found at https://firesecurityproducts.com/en/content/intrusion-intro
	2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: recyclethis.info
	This product may contain a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling return the battery to your supplier or to a designated collection point. For more information see recyclethis.info
Product documentation	Please consult the following web link to retrieve the electronic version of the product documentation. This link will guide you to the EMEA regional contact page. On this page you can request your login to the secured web portal where all manuals are stored. https://firesecurityproducts.com/en/contact

Contact information

www.aritech.com

P/N 1073492-EN • REV C • ISS 17JUL25