



BF2C

Fingerprint & Card Reader Plus Attendance & Access Controller And Wiegand 26 Output Interface

BF2C is the **economical** and **simple** fingerprint time attendance also offering unparalleled performance for physical access controller. Most physical time attendance and access security systems in use these days are based upon magnetic cards, identification numbers (IDs) and proximity cards. The disadvantage of these is the inability to detect false acceptance. This leads to frequent security breaches. Now, you can eliminate and prevent such security problems with the use of **BFLEX** devices.

BF2C generally supports RS485 and Wiegand 26 output interface and holds a broad compatibility to any Wiegand 26 Access Controller System. It has super FUNCTION KEYS such as [**Register**] and [**Delete**], [**Reset**] and [**Door bell**]. Besides, it has the Alarm output when anybody wants to remove the device without checking.

With the additional LED, it gives an easy verification to users whether he/she has the right to access or not. This model is so flexible when it comes to any request for customization such as back up batteries, language customization and etc. Basically this model is very user friendly because it has many features being built in this compact design.

Application Fields:

Bursary, Bank, Army, Jail, R&D Institution, Universities, Schools, Security Management System of Government or Enterprise and any applications that require authorized fingerprint authentication to access the premises and for time attendance system.

This solution is especial for France market.

Specification for BF2C

Sensor Size	16mm*14mm
Dimensions	85mm×78mm×34mm, 0.7kg
Image Scan Time	< 0.5 seconds
Fingerprint Capture Angle	360°
Verification Speed	< 2.0 seconds (1:1000fingers)
False Acceptance Rate	< 0.0001%
False Rejection rate	< 0.001%
Matching Method	1:N
Template capacity Rate	1300 fingerprint templates -- (each user has 1 finger and 1 card)
Card Reader	BF2, it has not the card reader inside. BF2C+ID, it can read 125khz card BF2C+IC, it can read 13.56MHz card BF2C+HID, it can read HID card.
Operating Method	Standalone
Manager Log Capacity	1000 Lines
In/Out Log Capacity	51200 Lines
Communication	Wiegand 26 Output, USB port (RS232 to TCP/IP converter.)
PUSH button	YES (two pins)
RELAY OUTPUT	YES (Delay time can be reset by the software.)
CARD reader function	Yes (RF ID 125KHz for BF2C+ID)
Access controller output	Wiegand 26 output, support all Wiegand 26 access controller
Simple access controller inside	With simple controller (Build inside) 2 pins for push button Relay output to Em lock (NO,COM,NC)
Operating Humidity	20%-80%
Operating Temperature	-5°C - + 50°C
Voltage Supply	12VDC@1A ,<1W
Additional Features	Function Keys, In/Out buttons, Bell button,

- This model offers ONE year warranty period for manufacturing defects.

User manual

When the device power on, the beep will sound [di - du - di - du-], then the fingerprint sensor will light, That means the device is on the normal working status and waiting for the fingerprint or card.

what you can do in the normal working status

1. Press your finger to identify.

If you have registered your finger inside the DEVICE, now, you can press your finger directly, and then the device will match out your finger with the correct USER ID.

2. Press [+] button to register user

This [+] button is the button for registration. When you press this button, the device will enter into the register status.

3. Press [-] button to delete user.

This [-] button is the delete button. When you press this button, the device will enter into the delete status.

4. Press [o] button to turn on / off the device.

This [o] button is the turn ON/OFF button. When you want to turn off the device, you should keep pressing this button for 2 seconds and when you want to power on the device, the same way to press this button.

5. Press [door bell] button to call the Bell.

This [door bell] button is the button for calling the door bell.

How to register the finger and card

In normal working status, to press the [+] button, the beep will sound [di], then the fingerprint sensor will flash .

At this time, one of the manager's fingers should be identified firstly. Then the device will register the user's finger one by one.

But if there is no manager's finger inside, the device should be registered by the manager's fingers or cards firstly.

The default first 2 fingers or cards will be as manager. And the user can not be registered unless to verify the manager's finger.

How to register the user?

When the fingerprint sensor flashes, you should press the finger or card for two times, then the device will sound [di di di], it means the device succeed to register the finger and you can go on registering the new finger. On this point, because there is no LCD and keypad, so you can not set the finger id, the finger id will be updated one by one automatically by the device.

The device will return back into the normal working status after 40seconds when nobody registers the fingers.

How to delete the finger or card for user / manger

1. To delete the user's finger from the device.

To press the [-] button, the finger sensor will flash; the device will enters into the delete status. The user

should press the finger or card for two times, if succeed, the device will sound [di du di du - - di du di du]

2. To delete all the users from the device

To press the [-] button, the finger sensor will flash, one of the manager should verify the finger or card for two times, the device will sound [di du di du] [di du di du], it means that the device have succeeded to delete all the user's fingers now.

At the same time, the finger sensor will still flash, the next working status is waiting to delete all the manager's finger.

3. To delete all the users and managers

After delete all the fingers, the device will wait for the finger to delete all the managers' finger. If you don't want to delete the manager's finger, you can press the [o] power off button, then the device will restart or power off.

Now, if you want to delete all the managers' finger, just verify one of the managers' fingers for two times, then all the manager's finger will be deleted. Then the device will restart and there will be no finger in the device.

Note:

If the device supports the card reader, the way of registering the card is the same as registering the finger.

How to use the device

When the device power on, the fingerprint sensor will light to wait for the finger (or the card). Then when press the finger or the card (the device should support the card reader inside), the device will sound [di di di di di di di di] and then the device will record the finger ID and the correct date and time as attendance. At the same time, the device will output the signal by the relay, so that you can access the door lock or other connecting controller.

Interface

