

Programming the system (Day to Day).

There are three programming functions available;

- 1) Validating User Cards for the reader
- 2) Deleting User Cards from the reader
- 3) Setting Lock Opening Time.

Logging on the User Cards

Each User Card has a corresponding paper Shadow Card

To validate a User Card, first swipe through one of the Shadow cards. The Green arrow LED will flash, and the other LEDs will go out

Now swipe the required User Card. The Green arrow LED will go steady, there will be a confirmation bleep and the three LEDs will come back on.

If the above indications do not happen, the card(s) may have been mis-read. (A mis-read is accompanied by a falling tone from the unit.) Simply try again, ensuring that the card is kept vertical and is swiped at a steady rate.

After the User Card has been logged on, write the User details (Name & Card No.) on the Shadow Card. This may then be used as a record for administration of the system.

More User Cards can be validated now or at any time (200 Max).

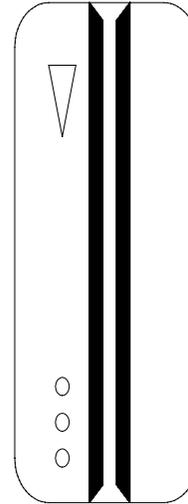
Deleting User Cards.

To remove a User Card from the reader, it is a simple matter of swiping the corresponding Shadow Card through the reader. The Shadow Card may now be re-used to validate a different User Card.

Setting the Door Release Time

After initialisation, the Release Time is set to 7 seconds. To change the this time, swipe the Master card through the reader and after the required time has elapsed, swipe the card again. Do not swipe any cards through the reader during this time

During the "wait" period all the LEDs will go out and there will be a bleep at one second intervals to aid the timing.



The BC 402 Compact Card reader is a self contained magnetic card reader requiring only a Locking mechanism and a Power Supply for a complete single door solution.

All programming is achieved by means of magnetic cards either provided with the unit or as a separate card pack.

The unit is supplied with 2 Metre cables, where all terminations are made for the lock, Exit Request Button and the Power Supply. There are no user serviceable parts inside the reader.

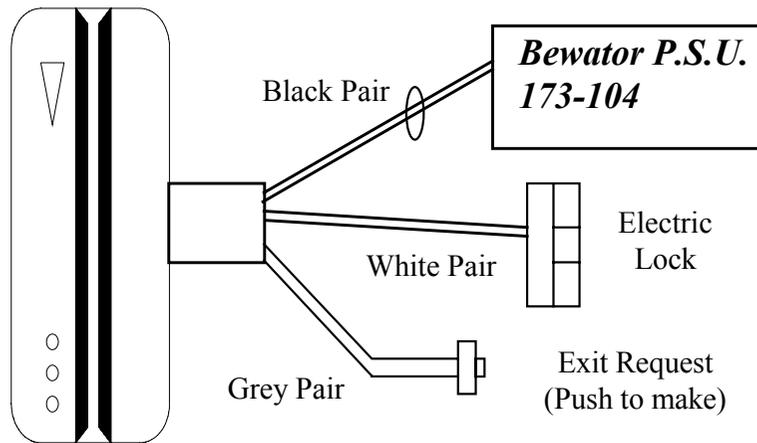
Installation.

The BC 402 may be installed externally without the need for heaters. The recommended mounting height is between 1.2 to 1.4 metres, in a vertical orientation with the small arrow pointing downwards. All fixing screws and clips are provided with the BC 402.

The cables should be passed through to the secure side of the door for termination to the Lock, Power Supply and Exit Request Button.

The cable connections are as follows:

White Pair (Note:- The ribbed or marked core is positive)	Lock Output
Black Pair	Power Supply
Grey Pair (If required)	Exit Request Button



Mounting Instructions

The unit is mounted to the wall by means of 2 fixing screws, and these are then locked by means of the small screw in the base of the unit.

Insert the 2 fixing screws into the wall at the correct spacing for the 2 holes in the back-plate of the reader, using the template provided.

Tighten the screws down until the head is 2mm from the wall. Slacken off the locking screw in the bottom end of the reader until the mounting hole is clear. The reader may then be put on over the screws, and pushed down slightly to engage the slot.

Once the reader is firmly located, the small locking screw in the base may be tightened up to lock the reader to the fixing screws

Technical Specification

Operating Voltage Supply	12 to 16 Volts A.C. or D.C.	(Bewator TABC Power No. 173-104)
Quiescent Current	80 mA	
Lock Output	MOSFET 750 mA maximum at supply voltage (DC)	
Operating Temperature	-20 to +60 Centigrade	
Measurement	89 * 34 * 34 mm	
Environmental rating	IP *7	

Setting up the system.

There are three types of card required to operate the BC 402, they consist of the following;

Control Cards (Plastic)

1) **The Master card** - This card is used to initialize the unit and set the door release time.

2) **Fail Open/Fail Locked Card** - This card is used to change the logic of the door output. This card is linked to the Master Card, so may only be used after initialisation, and only on the reader(s) initialised with the associated Master Card.

Shadow Cards (Paper)

These are used to issue and delete the User Cards. One shadow card is used for each User card. The Shadow Cards are also linked to the Master Card

User Cards

The cards that will be used day-to-day by the personnel, these may be standard Bewator IB-1 cards or even the user's bank or credit card.

Initial Operation

When the BC 402 is first powered up the Green arrow L.E.D will flash, which indicates that the reader requires initialisation.

At this stage (and this stage only) the BC 402 requires to be initialised with the Master card.

Carefully swipe the Master card once in the reader in a downwards direction.

The arrow L.E.D will go continuously green and the unit will give a confirmation bleep. If the L.E.D continues to flash, the card has been mis-read.

Setting the Door Output Logic

The reader must now be set according to the type of electric release to be used. This may be either "Fail Locked" (power to release) or "Fail Open" (power to lock).

After initialisation, the unit is set to "Fail Locked" operation. If "Fail Open" operation is required, swipe the Fail Open/Fail Locked Card once. This will toggle the operation of the output. Swiping the card again will return the reader to "Fail Locked" operation

Once this initialisation has been completed the BC 402 is ready for use