Secure External Returns Chute

User Guide

FE TECHNOLOGIES

Contents

Note: This User Guide relates to Software Version Release 2.33

Introduction

The FE Technologies Integrated Secure Chute is a robust, vandal resistant, stainless steel unit fitted with an RFID reader, and it can only be accessed using a library item that has been tagged with an RFID tag. The Chute can be used as an effective and secure after hours/ quick drop for returning library items. Items to be returned are held in front of the chute, adjacent to the RFID pad and the chute door will automatically unlock allowing patrons to open the chute and securely return items at their convenience.

Document Legend

Do's (recommended action)	Don't (not recommended action)
Note (a note of advice)	Caution (A note of warning or caution)
(FAQ) Frequently asked question	Tips for effective usage

Key Components

1. Self-contained instruction panel with visual LED indicators to guide the patron in using the chute.

2. Integrated RFID reader for user-friendly secure access — in an RFID enabled library, the patron just needs to touch the display panel zone with an item to open the chute.

3. Status indicator — colour LED lights.

    a. Blue – Chute ready for use

    b. Green – Chute open

    c. Red – Chute unavailable for use

4. Safe 12V low voltage system.

5. Optional UPS battery backup system — used to continued operation during power outages; however, if batteries are run to depletion, chute will remain locked. Our standard UPS provides about 12 hours of backup power. The library may purchase and install its own UPS.

6. Three position multimode switch

    a. Position one: Auto - RFID enabled operation – Requires an RFID item to unlock the chute.

    b. Position two: Unlocked – The chute remains unlocked and an RFID item is not required to open the chute. The light stays Green.

    c. Position three: Locked – The chute system is turned off and is unavailable for use. The LED light is off.

7. 'Full-electronic bin' interlock — if chute is connected to an FE Technologies electronic returns bin, the chute can set to the 'locked' state when the bin has reached its full capacity until the bin is partially cleared. The LED light stays red while the chute is locked.

8. Timer operation – An optional digital timer module can be purchased from FE Technologies to enable timer mode of operation. The 7 day 24 hour timer allows up to 4 different on off programs per day. It can also be programmed for different timings on each day of the week.

9. Stainless steel construction — the unit is made of exterior grade stainless steel for durability, vandal protection and corrosion resistance.

10. Liquid returns system — forward drainage to exterior of building for any liquids that might end up in the chute.

11. AS/NZS1428.2 compliant — when installed to listed specifications, reaching access to the chute opening is compliant with Australian Design for Access and Mobility Standard AS/NZS1428.2.

12. Tamper-proof fittings — used for securing the chute in position.

13. Rear cover deflection — design of the chute minimises the direct line-of-sight into the library and also prevents drafts into the library when the chute door is open

14. Compact size — wall cut-out required for installation is only 490mm x 328mm.
15. Open alarm — if the chute is left open for more than 45 seconds the system emits an audible alarm.

Powering the Chute

Before switching the chute on it will need to have access to power via the cable provided. The cable is to be plugged into the DC input jack switch located in the rear power panel in the left hand corner of the chute and then into a power outlet and switched on.
Turning the chute on and controlling its functionality has been simplified by a three mode switch.

If ever a power failure occurs an optional UPS battery backup system is available, this option can be used to provide continued operation during power outages; however, if batteries are run to depletion, chute will remain locked. Our standard UPS provides about 12 hours of backup power. The library may purchase and install its own UPS.

Using the Chute

There is a self-contained instruction panel with visual LED indicators to guide the patron in using the chute.

Step 1 – Touch this sign with your library item.

- The patron can simply touch the screen with the library item and the RFID reader will detect the tagged library item.

Step 2 – The light on the chute will turn green,

- The green light on the chute sign is the confirmation that the library item has been successfully identified and that you are ready to proceed.

Step 3 – Pull the chute open and return all items.

- After the green light indication pull the chute door open and deposit all library items. The chute door will then close once patron has released the handle and it will then lock.

Safety and regulation compliance

The FE Technologies Secure External Returns Chute complies with the following Australian and international standards.

As required by Australian Communications and Media Authority, our RFID products have Suppliers Declaration of Conformity notices under:

- Section 182 of the Radio communications Act 1992
- Section 134 of the Telecommunications Act 1997.

In addition, our RFID furniture complies with the following Australian and European standards:

- AS/NZS 4268:2003 Radio equipment and systems — Short range devices
  - Radio communications (Low Interference Potential Devices) Class Licence 2000
  - Radio Communications (Electromagnetic Radiation Human Exposure) Standard 2003
- ARPANSA Radiation Protection Standard for Maximum Exposure Levels to Radiofrequency Fields - 3kHz to 300GHz (2002)
- EN 60950-1:2001
- EN 50364:2001 — health and safety requirements pursuant to FTEG 3(1)1 and R&TTE Article 3(1)a
- ETSI EN 301 489-3 V1.4.1 — protection requirements concerning electromagnetic compatibility 3(1)2 (Article 3(1)b)
- ETSI EN 300 330-2 V1.1.1 — measures for the efficient use of the radiofrequency spectrum pursuant to 3(2) (Article 3(2)).

FCC ID: 2AM6N-FE-RETCHUTE

FCC Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning: Any changes or modifications not expressively approved by (company name) could void the user's authority to operate this equipment

Support Options

For any queries or to log a support call, please contact
FE Technologies Customer Care Centre via one of the following forum:

Online Support

http://www.fetechgroup.com.au/online-support.html
Email: support@fetechgroup.com

Phone Support

1300 731 991 – Australia

0800 231977 – New Zealand

+85 2 3008 5757 – Hong Kong

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