

RFID HF Return unit 13,56 MHz





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The RFID system is equipped with a device for selfreturns of books which identifies volumes and sends a message about the transfer of a given item to the library account.

The device is made in an external version with a conveyor belt and a collar – it will be installed in the wall opening prepared by Purchaser.

The user communicates with the device using a touch screen, whose appearance and content of messages can be agreed and adapted to the needs of the library.



Main features:

- the device, after checking and rejecting unauthorized returns, moves the books by the conveyor belt inside, where they fall into the transport cart with a self-tilting bottom,
- volumes inside RFID return machine are transfer out of patron account to the library account, at the same time there is a change of the protection status of the volume in the RFID label the book is ready to be put back on the shelf and borrowed further after going through the device,
- library logo and other personalization on the display,
- at least three language versions of the interface available to be selected by the user: English, Russian, Estonian,
- the software of return machine shows the returns and monitors any irregularities,
- the device accepts items from the library's collection only, otherwise a proper message is displayed,
- supports bar code and RFID book labels,
- the device accepts returns at the library's discretion, only authorized persons or anyone else,
- the patron may choose whether to print control receipt or not,
- RFID zone readers detect possible irregularities on returns and won't allow the book to be returned by mistake,
- remote monitoring the status of the device, incl. "book trolley full" message,
- checking the status of patron's accounts with the possibility of printing,
- optionally printing (on internal printer on the staff side) a list or single tickets for each book of returned items being on waiting list previously ordered in the LMS. Any printer incl. regular office one also a LAN printer can be configured.
- drop box is equipped with fire extinguishing device according to suitable regulations.

Technical specification:

The device consists of: a drop box, a collar, a conveyor belt and a cart with self-tilting bottom.

- receipt printer: Custom S.P.A. VKP80III IDcode: 1852911, RoHS II. -20°C to +35°C IP54,
- item restriction: max W380mm; H90mm, min. W70mm;L70mm:H2mm,
- receipt printer: 80mm, -20°C to +35°C IP54,
- automatic closing of device input hole,
- chassis of device: stainless steel,
 vandal -proof device to be mounted in a wall opening.
- dimensions:height 760 mm x width 970 mm x depth 1100 mm (with the conveyor belt),
- the device can be mounted in a hole with dimensions: height 940 mm, width 1020 mm, on any height from the ground according to the library's choice. Also in a such way that the highest control is not higher than 1220 mm from the the ground,
- touchscreen SAW and monitor LCD 17-inch HB model 17-DOT, 450 cd/m2, -20°C to +35°C, RoHS.
- RFID book label reader Feig CPR74, RoHS 2011/65/EC. -20°C to +35°C IP54,
- Bar code book label reader: Gryphon I GFS4100. Complies to EU RoHS. Operation: -20° C up to 50° C, IP54,

This device uses with the power grid connection (230V 50Hz 10A) and teleinformation network connection (RJ45 – stable IP number). A license for the SIP2 protocol should be purchased from the library system provider. Due to continuous progress, we reserve the right to make changes and improvements.

Cart with self – tilting bottom



The device uses a conveyor belt to move books inside the room, where they can fall into transport carts with a self-tilting bottom. Specification for carts with a self-tilting bottom:

- cart made of aluminum with a smooth and anodized surface,
- stable edge finish of the trolley with 3 mm thick special aluminum profile,
- movable bottom keeping books at the optimal height,
- adjustable spring force up to 50 kg,
- internal dimensions: width 740 mm x depth 500 mm x 480 mm high,
- external dimensions: width 870 mm x depth 560 mm x height 780 mm,
- capacity: 180 l,
- the bottom of the trolley is fitted with a lining to protect the books from damage,
- swivel castors with a diameter of 125 mm, solid rubber, with a brake on two wheels.

Standards: ISO / IEC 15693, ISO / IEC 18000-3, EN 300330, ISO 28560-2, ISO 14443. CE, RoHS. Current operating system: Windows 10 IoT Ent 2019 MultiLang. Supports encoding UTF-8.

Arfido reserves the right to change due to continued technical progress. The photos show an example of the device and dimensions, equipment and other parameters may vary.

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