



Eppendorf TrackIT

Operating manual

1.0

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Table of contents

1	Operating instructions	5
1.1	Using this manual	5
1.2	Symbols used	5
2	Product description	6
2.1	Delivery package	6
2.2	Features	6
2.3	RFID chip	6
2.3.1	Position of the RFID on dispensing devices with marking	6
2.3.2	Position of the RFID on dispensing devices without marking	7
3	Safety	8
3.1	Intended use	8
4	Software	9
4.1	Overview	9
4.2	Software version	10
4.3	Supported operating systems	10
5	Operation	11
5.1	Reading device data	11
5.2	Checking the RFID chip	11
5.3	Changing and saving custom data	12
5.4	Creating a data field	13
5.5	Deleting a data field	13
5.6	Creating a data structure	14
5.7	Selecting a data structure	14
5.8	Deleting a data structure	14
5.9	Displaying device data	15
5.10	Exporting device data	15
5.11	Automatically exporting device data	16
5.11.1	Activating the export	16
5.11.2	Deactivating the export	16
5.12	Setting the language	16
5.13	User rights	16
5.13.1	Creating a user	17
5.13.2	Deactivating a user	17
5.13.3	Changing a password	17
6	Maintenance	18
6.1	Cleaning the reader	18

7	Technical data	18
7.1	Weight/dimensions	18
7.1.1	Reader	18
7.1.2	USB storage medium	18
7.2	Ambient conditions	18
8	Transport, storage and disposal	19
8.1	Storage	19
8.2	Decontamination before shipment	19
8.3	Disposal	20

1 Operating instructions

1.1 Using this manual

- ▶ Read this operating manual completely before using the device for the first time. Please also note the operating instructions for the accessories, if applicable.
- ▶ This operating manual is part of the product. Thus, it must always be easily accessible.
- ▶ Enclose this operating manual when transferring the device to third parties.

1.2 Symbols used

Symbol	Meaning
▶	Handling
1. 2.	Actions in the specified order
•	List
<i>Text</i>	Name of fields in the software
i	Useful information

2 Product description

2.1 Delivery package

Number	Description
1	USB storage medium with software and operating manual
1	Reader
1	Installation manual

2.2 Features

The software and the reader enable RFID chips from Eppendorf dispensing devices to be read out and described. The scanned device data is saved in a database and can be opened at any time. The device data can be exported individually or automatically in various formats.

2.3 RFID chip

The RFID chips are available in the versions:

- Read only
- Read and write

The following data is stored on the RFID chip:

- Manufacturer
- Model
- Device type
- Serial number
- Dispensing volume
- Item number
- Batch number
- Number of channels
- Factory adjustment data
- Custom data (in the case of writable RFID chips)

2.3.1 Position of the RFID on dispensing devices with marking

The position of the chip on dispensing devices is marked with the lettering **RFID**.

2.3.2 Position of the RFID on dispensing devices without marking

On the following dispensing devices, the position of the RFID chip is marked with a circle.

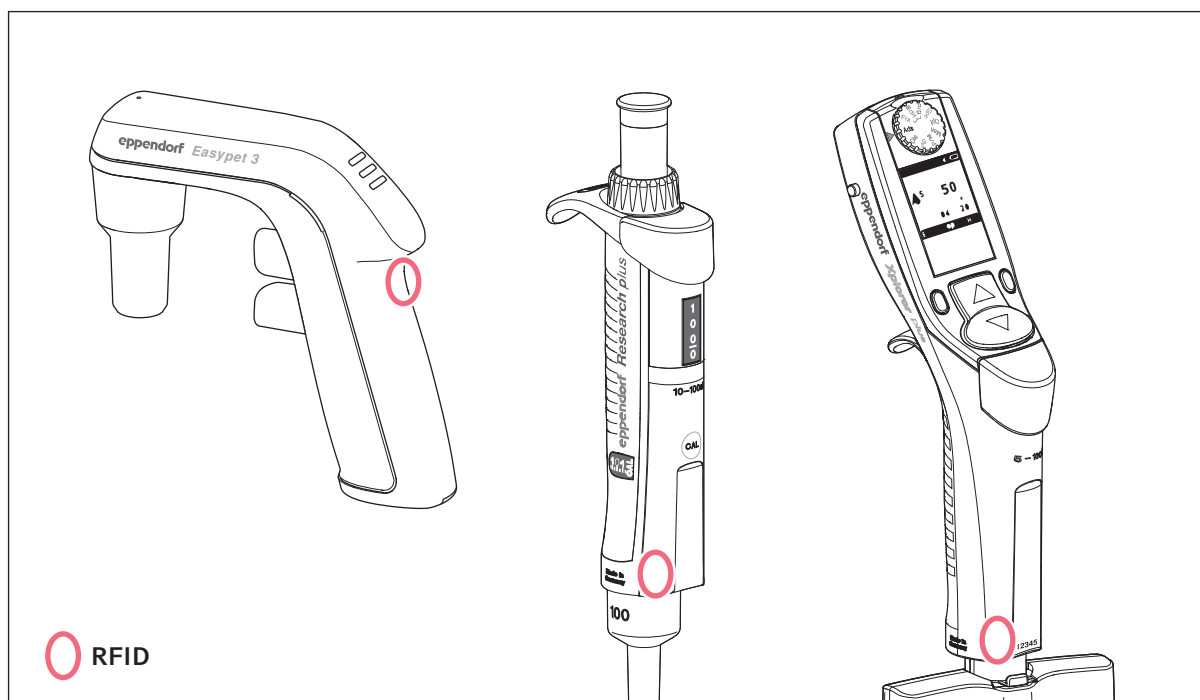


Fig. 2-1: Position of the RFID on the Easypet 3, the Research plus and the Xplorer or Xplorer plus

3 Safety

3.1 Intended use

The software and the reader enable RFID chips from Eppendorf dispensing devices to be read out and described.

Eppendorf TrackIT may only be operated by specialized personnel.



Observe the dangers when handling dispensing devices within the scope of the intended use.

4 Software

4.1 Overview

The screenshot shows the Eppendorf TrackIT software interface. The main window has a menu bar with 'File', 'Custom Data', 'Configuration', and 'Help'. Below the menu is a toolbar with icons for file operations and help. The main content area is divided into two tabs: 'Device data' (selected) and 'Calibration data'. The 'Device data' tab contains three sections: 'Identifikation', 'Factory Adjustment', and 'Custom Data'.

Identifikation

Manufacturer	Eppendorf		
Model	Reference 2 - adjustable-volume	Article number	4920000032
Dispensing volume	2 to 20 μ L	Batch number	C402383G
Serial number	G37916C	Number of channels	1
Device type	Piston-stroke pipette, variable volume		

Factory Adjustment

1st Volume	2 μ L	System. Error	0,08 %	Random error	1,17 %
2nd Volume	20 μ L	System. Error	-0,29 %	Random Error	0,09 %

Custom Data

Designation	Value	Comment
Name		User Name
Inventory-No		Inventory number of the Instrument
Laboratory		Name of the Laboratory
Initial Date		first-time operation date
Next Service		estimated service date

At the bottom of the window, a status bar shows: Reader active [534C1082] | Lockstate: Partly locked | User: Admin | User rights: Admin

Fig. 4-1: Main screen

The *Device data* data sheet shows the manufacturer's data, the factory adjustment and the custom data.

The *Calibration data* data sheet shows the status and the results of the last calibration. Calibration data can only be entered and saved by Service personnel.

4.2 Software version

Current software updates can be found on the Eppendorf website.

www.eppendorf.com/trackit

4.3 Supported operating systems

- Windows 7 SP1 32/64 bit (or higher)
- Windows 8 32/64 bit
- Windows Vista SP2 32/64 bit (or higher)
- Windows XP SP3 (not recommended)

5 Operation

5.1 Reading device data

Prerequisites

- The reader is active.

1. Hold the reader with the LED directly located at the position of the RFID chip.

- The reader's LED lights green.
- A window with the message *Reading device data* appears.
- Once the reading process is complete, the reader's LED lights blue.
- The device data is displayed in the main screen.

5.2 Checking the RFID chip

You can check whether the RFID chip is writable.

Prerequisites

- Device data has been read in.

1. On the *Device data* data sheet, click on the lock symbol.

- The lock symbol is opened: the RFID chip is writable.
- The lock symbol is grayed out: the RFID chip can only be read.

5.3 Changing and saving custom data

Prerequisites

- The device data has been read out.

The screenshot shows the Eppendorf TrackIT software window. The 'Custom Data' tab is selected, and the 'Custom Data' section is expanded, showing a table of custom data entries. The 'Next Service' entry is highlighted in blue.

Device data | **Calibration data**

Identification

Manufacturer: Eppendorf
 Model: Reference 2 - adjustable-volume
 Article number: 4920000032
 Dispensing volume: 2 to 20 µL
 Serial number: G37916C
 Batch number: C402383G
 Device type: Piston-stroke pipette, variable volume
 Number of channels: 1

Factory Adjustment

1st Volume: 2 [µL] System Error: 0,08 % Random error: 1,17 %
 2nd Volume: 20 [µL] System Error: -0,29 % Random Error: 0,09 %

Custom Data

Designation	Value	Comment
Name	Peter Miller	User Name
Inventory-No	x21231y	Inventory number of the Instrument
Laboratory	Lab X2221	Name of the Laboratory
Initial Date	21.02.2013 00:00:...	first-time operation date
Next Service	18.07.2013 00:00:...	estimated service date

Reader active [534C1082] Lockstate: Partly locked User: Admin User rights: Admin

Fig. 5-1: Custom data

1. In the *Custom data* area, click on the lock symbol.
The lock symbol is open.
2. In the *Value* column, enter the data (in ASCII format).
3. Hold the reader at the position of the RFID chip.

4. In the toolbar, click on *Write data*.
The device data is written to the RFID chip.
5. Confirm the message with *OK*.

5.4 Creating a data field

User-specific data fields can be created. The data fields are included in a data structure. A data field is defined by the data type and the field length.

The following data types are available:

Data type	Storage space	Use
1 character numerical	1 byte	Number from -128 to 127
2 character numerical	2 bytes	Number from -32768 to 32767
4 character numerical	4 bytes	Number from -2147483648 to 2147483647
Alphanumeric string	62 bytes (maximal)	Alphanumeric characters (ASCII character set, without country-specific special characters)
Date	8 bytes	Date

1. In the *Configuration* menu, click on the *Manage data fields* submenu.
2. Select *New*.
3. Enter the designation of the data field.
4. Select the data type.
5. Select *Save*.

A data field has been created and can be included in a data structure.

5.5 Deleting a data field

Prerequisites

- The data field is not used in any data structure.

1. In the *Configuration* menu, click on the *Manage data fields* submenu.
2. Select the data field.
3. Select *Delete* and confirm with *Yes*.

5.6 Creating a data structure

Data structures are used for compiling data fields. Each dispensing device can have its own data structure.

Prerequisites

- Data fields have been created.

1. In the *Configuration* menu, click on the *Manage data fields* submenu.
2. Select *New*.
3. Enter the name for the data structure and confirm with *Save*.
4. Select the data fields and add them to the data structure.

The total of all the lengths defined for data fields in a data structure is limited to 62 bytes.

5. Confirm the change to the data structure with *Close*.
 - A data structure with data fields has been created.

5.7 Selecting a data structure

On the main screen, the data structure is displayed in the *Custom data* area.

1. Click in the *Select data structure* toolbar.
2. Select the data structure and confirm with *OK*.

5.8 Deleting a data structure

Prerequisites

- The data structure is not used.

1. In the *Configuration* menu, click on the *Manage data fields* submenu.
2. Select the data structure.
3. Select *Delete* and confirm with *Yes*.

5.9 Displaying device data

All scanned device data is saved. The device data can be filtered and displayed according to various criteria. Previous data can be written back to the RFID chip.

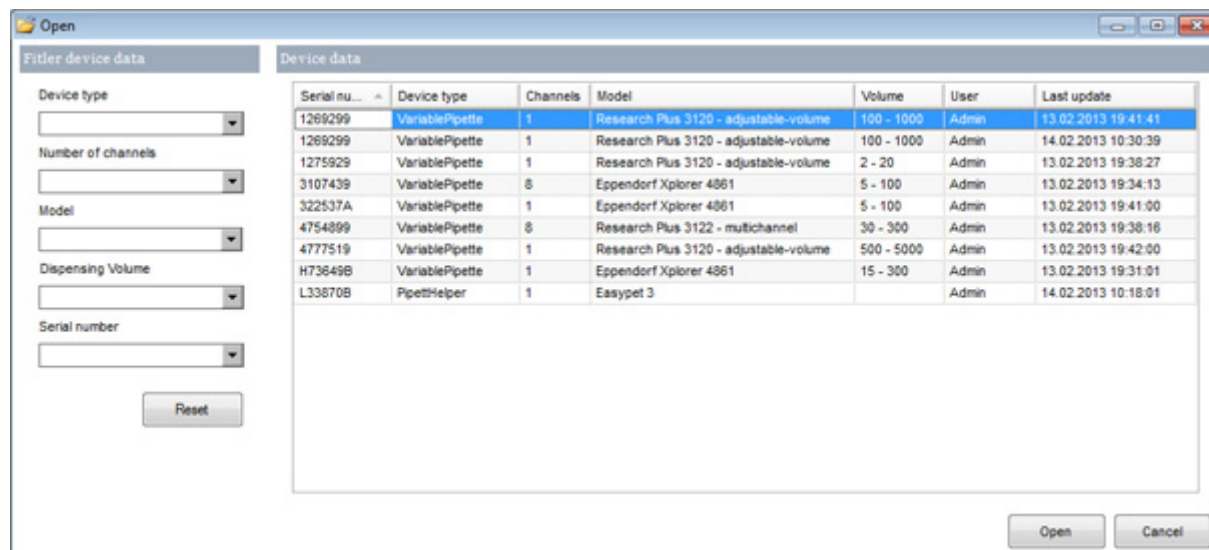


Fig. 5-2: Filtering and displaying device data

Prerequisites

- No device data has been read out.

1. In the *File* menu, select the *Open* submenu.
2. Set a filter.
3. Select a data record by double-clicking on it.
 - The device data is displayed in the main screen.

5.10 Exporting device data

The device data can be exported in order to allow it to be used in other applications.

The following formats are available:

- XML
- HTML
- CSV

1. In the *File* menu, select the *Export* submenu.
A File Explorer opens.
2. Accept or adapt the file name (serial number).
3. Select the storage location and export format.
4. Select *Save*.

5.11 Automatically exporting device data

You can automatically export the device data for each dispensing device. The serial numbers of the dispensing devices are used as the file names.

5.11.1 Activating the export

1. In the toolbar, click on *Automatically export*.
2. Select the directory and the export format.
3. Confirm with *OK*.

5.11.2 Deactivating the export

1. In the toolbar, click on *Automatically export*.
2. Delete the directory.
3. Confirm with *OK*.

5.12 Setting the language

1. In the *Configuration* menu, click on the *Select language* submenu.
2. Select the language and confirm with *OK*.
3. Restart the software.
 - The language setting becomes active after a restart.

5.13 User rights

The scope of software functions available to a specific user depends on the selected user group. Each user group has been assigned certain rights.

The following user groups are available:

User group	User rights
Admin	Read, open, write and export device data. Set language. Adjust reader. Create user. Create, delete data fields. Create, change data structure.
Writer	Read, open, write and export device data. Set language. Adjust reader.
Reader	Read, open and export device data. Set language. Adjust reader.

5.13.1 Creating a user

1. In the *Configuration* menu, click on the *User settings* submenu.
2. Select *New*.
3. Define the user name, password and user group.
4. Select *Save*.
 - The user has been created.
 - The user account is active.

5.13.2 Deactivating a user

A user account can only be deactivated or activated. Once created, a user account cannot be deleted.

1. In the *Configuration* menu, click on the *User settings* submenu.
2. Select the user.
3. Place a checkmark next to *Deactivate User*.
4. Select *Save*.
 - The user account has been deactivated.

5.13.3 Changing a password

1. In the login window, click on the lock symbol.
2. Enter the old password.
3. Enter the new password.
4. Confirm the change of password by selecting *Save*.

6 Maintenance

6.1 Cleaning the reader

Wipe the reader with a dry cloth.

7 Technical data

7.1 Weight/dimensions

7.1.1 Reader

Width	35 mm
Length	70 mm
Height	10 mm
Cable length	1.2 m
Weight	46 g

7.1.2 USB storage medium

Width	19 mm
Length	35 mm
Height	10 mm
Weight	16 g

7.2 Ambient conditions

Ambience	Only for use indoors.
Ambient temperature	0 °C – 50 °C
Relative humidity	5 % – 95 %, non-condensing.
Atmospheric pressure	700 hPa – 1060 hPa

8 Transport, storage and disposal

8.1 Storage

	Air temperature	Relative humidity	Atmospheric pressure
In transport packaging	-10 °C – +65 °C	5 % – 95 %	700 hPa – 1060 hPa
Without transport packaging	-10 °C – +65 °C	5 % – 95 %	700 hPa – 1060 hPa

8.2 Decontamination before shipment

If you are shipping the device to the authorized Technical Service for repairs or to your authorized dealer for disposal please note the following:



WARNING! Risk to health from contaminated device

- ▶ Please observe the information in the decontamination certificate, which is available as a PDF file on our webpage (www.eppendorf.com/decontamination).
- ▶ Decontaminate all the parts you would like to dispatch.
- ▶ Include the fully completed decontamination certificate in the package.

8.3 Disposal

In case the product is to be disposed of, the relevant legal regulations are to be observed.

Information on the disposal of electrical and electronic devices in the European Community:

Within the European Community, the disposal of electrical devices is regulated by national regulations based on EU Directive 2002/96/EC pertaining to waste electrical and electronic equipment (WEEE).

According to these regulations, any devices supplied after August 13, 2005, in the business-to-business sphere, to which this product is assigned, may no longer be disposed of in municipal or domestic waste. To document this, they have been marked with the following identification:



Because disposal regulations may differ from one country to another within the EU, please contact your supplier if necessary.

In Germany, this is mandatory from March 23, 2006. From this date, the manufacturer has to offer a suitable method of return for all devices supplied after August 13, 2005. For all devices supplied before August 13, 2005, the last user is responsible for the correct disposal.

EG-Konformitätserklärung EC Conformity Declaration

Das bezeichnete Produkt entspricht den einschlägigen grundlegenden Anforderungen der aufgeführten EG-Richtlinien und Normen. Bei einer nicht mit uns abgestimmten Änderung des Produktes oder einer nicht bestimmungsgemäßen Anwendung verliert diese Erklärung ihre Gültigkeit.

The product named below fulfills the relevant fundamental requirements of the EC directives and standards listed. In the case of unauthorized modifications to the product or an unintended use this declaration becomes invalid.

Produktbezeichnung, Product name:

Eppendorf TrackIT

Produkttyp, Product type:

RFID Reader

Einschlägige EG-Richtlinien/Normen, Relevant EC directives/standards:

1999/5/EG, EN 60950-1, EN 301 489-1, EN 301 489-3, EN 300 330-2

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