

# Additional Instructions P52T-SERVICE

Service manual for updates, passwords and further languages



Includes the following features:

- Flashing Firmware update
- Update of the user interface
- Changing user passwords
- How to add further languages



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# 1 Update Firmware



### NOTE!

- The firmware contains all controller relevant components of the P52T unit.
- There is separate software for the user interface, which can be updated via USB stick. This update procedure is described in chapter \* 2 "Update User Interface".

To perform a firmware update, the "Renesas Flash Programmer V3" software and a commercially USB/TTL/Serial converter cable (TTL-232-3V3) is used (accessory Art. No.: 167500006). The Flash Programmer software tool as well as the corresponding documentation is available on <a href="https://www.renesas.com">https://www.renesas.com</a>. After your registration the software is available for download.

# 1.1 Installation

After downloading the "Renesas Flash Programmer V3" software, please install it on your PC or notebook.

# 1.2 Cable Connection

The TTL-232-3V3 cable must be plugged in as follows:

Compact version:

Decentralized version:



Plug the other end of the cable into a USB port of the PC or notebook, e.g. COM6.

# 1.3 Update File .mot

The latest version of the P52T firmware can be obtained from ELGO Electronic GmbH & Co. KG, and will be sent to you as a zip file.

- 1. First <u>create an empty folder</u> named "mot" on the hard disc of your PC / notebook.
- 2. Unzip the zip file received from ELGO and save the .mot file in the new folder "mot".



P52-SN100-af4ac16d9560.mot

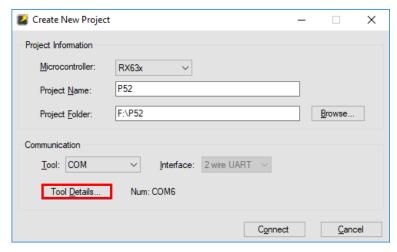
NOTE! The file name is version-dependent and can therefore differ from the example.



# 1.4 Create New Project (only when updating the first time)

If the P52T firmware update is performed for the first time, a new project must be created. After that, the last saved project can be selected. This is saved automatically and is then available for further updates.

- 1. Start the "Renesas Flash Programmer V3" software.
- 2. Go to "File" → "Create New Project". Then select Microcontroller: "RX63x" and assign a project name, e.g. "P52" into the corresponding field:

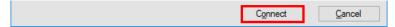


Then open "Tool Details" and select the COM-Port used (see  $\@ifnextcharp{\circ}$  1.2)  $\rightarrow$ 

COM5: USB Serial Port COM6: USB Serial Port

3. If not done yet, plug in the TTL-232-3V3 cable and switch on the P52T.

Then press the button "Connect":

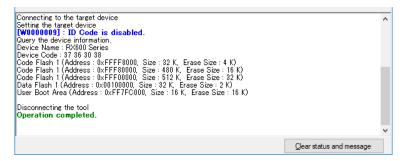


4. An intermediate window for entering the frequency appears:

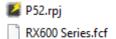


Enter value "12" and confirm with OK.

The following message must appear in the lower window of the mask:



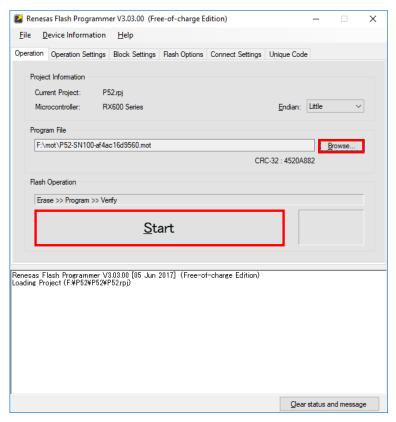
- → The creation of the project is now completed.
- → The folder "P52" now contains the following files:





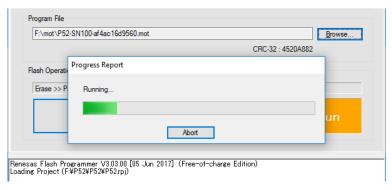
# 1.5 Flashing the Firmware Update

- 1. If not done yet, plug in the TTL-232-3V3 cable and switch on the P52T.
- 2. Start the "Renesas Flash Programmer V3" software.
- 3. Browse the **.mot** file from the folder "**mot**" created in section \$\textit{\$\sigma}\$ 1.3:

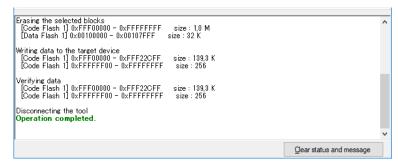


Then press the "Start" button...

4. The firmware is now transferred to the P52T:



5. After successful flashing the following message must appear in the lower window of the mask:



- → The flashing operation is now completed.
- → If flashing is to be repeated, the P52T must first be switched on and off.



# 2 Update User Interface

# ĵ

# NOTE!

- This software contains all user-related and operation-relevant components.
- All controller relevant components are included in the firmware. The update procedure for the firmware procedure can be found in chapter \* 1.

The latest version of the user interface software can be obtained from ELGO Electronic GmbH & Co. KG, and will be sent to you as a zip file. To update the user interface software, proceed as follows.

- 1. Unzip the zip file received from ELGO on your PC or notebook.
- 2. Save the contained file **system.update.tar.gz** to the root directory of a USB stick.
- 3. Switch off the P52T and insert the USB stick into the USB slot of the unit.
- 4. Switch the P52T on again.
- 5. The controller now boots via the USB stick and the update will be installed automatically.
- 6. When the boot process is finished, remove the USB stick.
  - → The new user interface software is now active...



#### 3 **Password**

The following default passwords have been defined for the corresponding user levels:

- Level 1 (User) → Password **123456**
- Level2 (Machine) → Password **200679**
- → Password **250565** Level 3 (Admin)

These passwords can be changed individually with the following procedure:

#### 3.1 Change Password(s)

# **Preparation**

- 1. Insert a USB stick into the USB slot of the P52T unit.
- 2. Go to the menu "Service" → press the button "Create Backup" → and confirm with "Yes".  $\rightarrow$  the backup is running  $\rightarrow$  then the application is restarted.
- 3. Now unplug the USB stick from the control unit and insert it into the USB slot of a PC or Notebook

# **Creating new passwords**

- 4. Open the P52SNxxx folder on the stick and then → "backup" → "resources" → "settings"
- 5. A new file named **access.ini** must be created and saved into the settings folder. For this WordPad, Notepad++ or a comparable editor can be used.

If you want to change the password for all 3 levels, write exactly the following code into the empty file. Example for changing all 3 levels:

[General] SHA1=true

Level1= Level2=

Level3=

If you only want to change 1 or 2 passwords, <u>leave out</u> the level(s) you don't want to change.

Example for changing only one level (3):

[General] SHA1=true Level3=

Make a note of the new passwords you want to assign. Then visit an online SHA1 hashtag generator (e.g. http://www.shal-online.com) and create from the new password(s) a hashtag for each level. Now copy the generated code to the respective level and save the file on the stick.

# Example for changing all 3 levels:

```
[General]
SHA1=true
Level1=7c4a8d09ca3762af61e59520943dc26494f8941b
Level2=3343909d6e74aea0487ea8b1eb363d71e1c7afaa
Level3=37427a77f128acb5eba2737fd45219f8ca289d78
```

# Example for changing only one level (3):

```
SHA1=true
Level3=37427a77f128acb5eba2737fd45219f8ca289d78
```

- 6. After saving the file, remove the USB stick from the PC and plug it into the USB slot of the P52T.
- 7. Then go to the menu "Service" → press the button "Read Backup" → and confirm with "Yes". The backup is load and the application is restarted  $\rightarrow$  now the new P52T passwords are active.



# 4 Add further Languages

To add further languages to the menu, proceed as follows:

# 4.1 Preparation

- Insert a USB stick into the USB slot of the P52T unit.
- Go to the menu "Service" → press the button "Create Backup" → and confirm with "Yes".
   → the backup is running → then the application is restarted.
- Now unplug the USB stick from the controller and insert it into the USB slot of a PC or Notebook.

# 4.2 Configuration of Button- and Menu-Title

- 1. Open the P52SNxxx folder on the stick and then → "backup" → "resources" → "language"
- 2. → The following three files will appear: (contains the titles for button and menu)
- ENG.ini ← (contains the English menu texts)
   Open resp. double-click the config.ini with WordPad, Notepad++ or a comparable editor.

```
Now add the desired new language (e.g. French as marked yellow in the example):

;the language in three-letter code (ISO 639-3 standard)

[General]

Language="ENG"

[DEU]

Text="German"

[ENG]

Text="English"

[FRA]

Text="French"
```

4. Then save the file to the USB-stick (without renaming it).

## 4.3 Translation of the entire Menu Texts

- 5. Depending on desired source language, make a copy of the ENG.ini or DEU.ini and rename the file exactly to the previously defined indication, e.g. FRA.ini
- 6. Then open the new created file with WordPad, Notepad++ or a comparable editor
  - → Now all texts can be translated as shown in the following example screenshot:

If all texts have been translated, save the file on the USB stick and plug it into the P52T

- → go to the menu "Service" → press the button "Read Backup" → and confirm with "Yes".
- → the backup is load and the application is restarted → now the new language is available in the P52T.

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