PAPERFOX FTD-1 Touchscreen controller

Instructions manual

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Brief description

The standard Paperfox FTD-1 is manufactured with a simple display and pushbuttons. In this user manual, we describe only the deviations related to the graphics controller. Further information on the treatment of FTD-1 can be found in the instructions for use of FTD-1.

Home screen

After turning on the machine, the home screen appears.



After touching the **info** icon, the info screen will appear. You can see in this menu the serial number and other information.

After touching the **settings** icon, the settings screen will appear. The operating parameters of the machine can be set here.

An incorrect setting may cause the device to malfunction.

The setting is recommended only to those who have read this user manual.

If the setting without entering a password is not enabled, this menu item can only be accessed by entering a password.

The password is 2142

After touching the **Adjustments** icon, the adjustments screen will appear. Here you can set the desired number and location of the adhesive tape strips for each adhesive tape applicator head separately.

After touching the **Save** icon, the load/save screen will appear. In this menu item, you can save and load the sticking parameters of the adhesive tape.

After touching the **Language** icon, you can choose the language in which you want to program the device.

After touching the **Help** icon, you can view the help instruction for the currently active screen.

By touching the **Speed** icons, you can select the speed of the conveyor belt. If you select the slowest speed, the speed can be adjusted with the potentiometer of the frequency converter in the box of the control unit. If you change the speed, the gluing positions will also change. This speed level is recommended when setting up and testing the machine.

The Counter shows the number of sheets passed through the machine.

The **Length** shows the length of the last sheet passed through the machine. Even with accurate settings, this may differ slightly from the actual page length because the photosensor does not detect the front and end of the page exactly the same way. This does not affect the accuracy of the tape application, because the machine measures each position relative to the front of the sheet.

By touching the **Reset** button, you can set the counter value to zero.

Info screen - 1



You can see the software version and the serial number of the device. Additional information may also appear on this screen.

After touching the **Home** icon, you can view the start screen.

Settings screen - 1

The operating parameters of the machine can be set on the settings screen.



After touching the **Home** icon, you can view the start screen.

With the **Page change** buttons you can select the next or previous screen.

After touching the **Settings** icon, you can view the first settings screen. (Now it is inactive) The **Factory settings** is a password protected menu for setting the initial parameters of the device. This menu is not available for users.

Enable entering to user settings without password - If this function is active, you can enter the settings menu without a password.

Invert fotosensor - If the photo sensor cannot distinguish the dark-colored sheets from the background, stick a strip of white insulating tape on the conveyor belt under the photo sensor. By selecting the "invert photosensor" function, dark colored sheets can also be processed.

Otherwise, this function should not be active, because it causes complete confusion of the machine.

Auto repeat function active - If this function is active, then after the machine has placed the adhesive tape in the set positions, it will start taping again according the program. The device finishes the taping only when the sheet has run out of the machine. This function can be useful when processing very long sheets or roll materials.

Motor move backwards - This function is used to change the direction of the conveyor belt. This may be necessary for machine maintenance.

Disable stop at sheet end - In normal operation mode, if the sheet of paper runs out of the machine, the adhesive tape application stops.

If there is a cut-out or a dark-colored printed pattern on the sheet to be processed, the machine can sense it as a sheet end and stops the taping process.

If this function is active, the machine continues taping even if it detects the end of the sheet.

Image: A state of the state of

Setting screen - 2

Load user default settings - You can load the settings (scale factor and delays), which you saved. **Load factory default settings -** You can load the settings (scale factor and delays), which saved during the initial tests.

Save user default settings - You can save the currently active settings (scale factor and delays). **Enable beep sound** - In normal operation mode, the machine beeps when you touch any icon. This sound can be disabled, but it will only take effect after the next reboot.

Settings screen - 3

The speed can be selected by touching the speed buttons. (0-3)

The scale factor for the active speed can be modified.

If you enter the actual length of the paper in the Real length field, after pressing the "calculate scale factor from real length" button, the machine will calculate and store the calculated value of the scale factor.

The Measured length (ms) is the time during the sheet is under the photosensor.

The Measured length (mm) is the distance calculated from the time during the sheet is under the photosensor and the scale factor.

The value of the scale factor is a distance in mm which the conveyor belt travels under 10 sec.



Settings screen - 4, 5, 6, 7



With the **Page change** icons you can select the A, B, C and D heads.

The Selected head appears in the field.

The **speed** can be selected by touching the speed buttons. (0-3)

The delays for the active speed can be modified.

The **start delay** is the time during which the sheet of paper arrives from the photo sensor under the adhesive tape application head, minus the time that the adhesive tape application head needs to actually start taping after the electric start signal.

The **stop delay** is the time during which the sheet of paper arrives from the photo sensor under the adhesive tape application head, minus the time that the adhesive tape application head needs to actually stop taping after the electric stop signal.

The **end delay** is the time during which the sheet of paper arrives from the photo sensor under the adhesive tape application head, minus the time that the adhesive tape application head needs to actually stop taping after the electric stop signal at sheet end.

The 3 delays are vers similar, but they are not necessarily the same

Setting the parameters

in the drawing above you can see the function of the parameters.



- S: Sign of the optosensor
- A: Driving signal of head "A"
- B: Driving signal of head "B"

The sheet arrives under the optosensor, after the "Start" delay arrives to the taping rollers. (The optosensor is not in the same position as the taping rollers.) The device adds this "Start" delay to the taping start position delays. The taping stop points are calculated with the "Stop" delay. It can be slightly different because of mechanical differences. (The knife slides a bit on the surface of the tape before cutting it.) The "End" sheet end delay is used to calculate the time difference when the sheet runs out from the optosensor until the sheet runs out out from the taping head. When the sheet has ran out from the taping head the taping process stops even if the programmed position is still not achieved. (B8 position on the picture.)

You can postpone this stop function at the sheet end with activating the "Sheet end detection disable" function. In this case the device continues the tape application even if the optosensor can't detect the sheet until the value of the "Disable length" parameter.

Adjustments screens

Here you can set the desired number and location of the adhesive tape strips for each adhesive tape applicator head separately.



With the **Page change** icons you can select the A, B, C and D heads.

The Selected head appears in the field.

With the **Copy** icon you can copy all taping values from this taping head.

With the **Paste** icon you can paste all taping values to this taping head.

With the **Clear** icon you can set to zero all taping values on this taping head.

To the **Values** fields you can enter up to 8 taping positions. The "0" in the taping position field mand that this position is inactive. So if you want to start taping at the front end of the sheet then you should write "1" to the first taping position.

Save screens

There are two pages on the save screen so you can save up to 8 sets of thing positions.

L	oad			Text	t field			Save	9
♠	(0	\odot	Lo	ad-8	Save	1.		0
1	P								
2	P								
3	F								
4	F]

With touching the **Load** icon you can load the saved set of taping positions.

With touching the **Save** icon you can save the actual set of taping positions.

In the **Text field** you can write a short text to memorise what did you save.

Help screens

After touching the **Help** icon, you can view the help instruction for the currently active screen.



Help topics	?
<u>Home screen</u> <u>Settings screen</u> Advanced settings screen	
Language screen Save, open screen	Online help
Serial number and other information Parts of FTD-1	
Parts of the control unit Parts of the applicator head Insertion of the adhesive tape	

If you touch the help icon in the help section, you'll get the start page of the help menu.

Language screen

In this screen you can select the language of the program. Currently only 3 languages are available.

