



Giesecke+Devrient

# User Manual

ProNote 130



Original operating instructions

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### Disclaimer

The specifications stated in this documentation do not represent guaranteed characteristics.

This documentation is based on the machine type ProNote 130.

Subject to technical changes.



This product meets the safety requirements of the relevant EU directives and complies with the EN standards as listed in the EU Declaration of Conformity.

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# 1 About This Manual

This chapter contains the following information:

- Overview of all manuals in the ProNote 130 operating instructions
- Target group of this manual
- Content and structure of this manual
- A description of the conventions used in this manual

## 1.1 Overview of All Manuals for the ProNote 130 System Operating Instructions

Quick Start Guide	<p>This manual forms part of the System Operating Instructions. The following manuals form part of the System Operating Instructions:</p> <p>These quick instructions are intended for all users of the product. They describe the first steps without using text so that the user can operate the product. The quick instructions are supplied with the product.</p>
Safety Information	<p>The safety information is intended for all users of the product. It describes all the necessary safety measures for hazard-free use of the product. The safety information is supplied with the product.</p>
User Manual	<p>The user manual is intended for all users of the product and can contain the following information:</p> <ul style="list-style-type: none"> <li>● Requirements for the installation site as well as for the transport and secure operation of the product</li> <li>● Technical data for the product</li> <li>● Installing and connecting the product</li> <li>● Operating the product and straightforward cleaning and maintenance work that is not performed by Service</li> <li>● Installing and using the software applications</li> </ul>
Service Manual	<p>The Service Manual describes maintenance work carried out on the product by field engineers.</p> <p>The maintenance work includes:</p> <ul style="list-style-type: none"> <li>● The replacement of parts for repairs (corrective measures) including the necessary adjustment work</li> <li>● Installing and using the software application for Service</li> </ul> <p>You will only receive a service manual after you or your staff have received training from G+D to become a field engineer.</p>

Troubleshooting Manual

The Troubleshooting Manual offers an interactive troubleshooting including links to detailed procedures and video tutorials.

The Troubleshooting Manual is only available as part of the electronic documentation library EB Suite. The contents of the Troubleshooting Manual depend on your access rights.

Spare Parts Catalog

Please use the electronic spare parts catalog for Banknote Processing Systems on CD/DVD to order spare parts.

## 1.2 Target Group of this Manual

The manual is intended for the operator.

## 1.3 Content and Structure of This Manual

This manual contains the following:


- The → *"Safety"* chapter contains important safety information.
- In the → *"General Information about the Product ProNote 130"* chapter, you will find an overview of the product..
- The→ *"Technical Data"* chapter contains the technical data for the product and describes the requirements that must be met at the installation site to safely operate the product.
- The → *"Installation"* chapter contains information on the transport, installation, and commissioning of the product.
- The → *"Operating"* chapter describes step-by-step procedures on how to operate the banknote processing machine.
- The → *"Defining Settings via the User Menu" chapter describes how to define user settings via the user menu.*
- The → *"Maintaining the Machine" chapter describes procedures for cleaning the machine and adjusting the feed gap.*
- The → *"Clearing Jam" chapter describes how to clear a bank-note jam.*
- The → *Appendix* contains useful additional information.
  - Error messages
  - Contact addresses
  - A list of abbreviations and glossary of terms
  - Table of figures
  - Index

## 1.4 Conventions Used in this Manual

### 1.4.1 General Document Conventions

The following formatting styles are used as standard to identify certain information:

Conventions	Definition
<u>This text is important.</u>	Underlined text indicates important information.
<b>Mechanical operating control</b>	Names of mechanical operating controls like keys or switches are written in bold. Example: Press <b>Start</b> on the device.
<b>GUI Text</b>	Objects in the graphical user interface (GUI), e. g. a button, are in bold. Example: Click <b>OK</b> .
<b>Menu option &gt; Menu option</b>	Menu names are in bold. Angle brackets indicate navigation through menus. Example: Select <b>File &gt; Print</b> from the menu.
'User input'	User inputs are in single quotes. Example: Enter <b>port</b> = '8080'.
<Placeholder>	Placeholders for display text or user input are in angle brackets. Example: Enter <Password>.
[Key]	Keys on the keyboard are in square brackets. Example: Press [Alt] + [p] to print the file.
<i>File or path</i>	File names or paths are in italics. Example: Open <i>readme.txt</i> .
Command	Commands are in Courier font.

Conventions	Definition
	Example: Open an input window and enter <code>ping</code> .
Code	Codes are in courier font.
"Title"	Titles of reports, logs, modes, windows, etc. are in quotation marks. Example: The "xy" window appears.
→ <i>"Manual title"</i>	References to other manuals are in italics. The manual title is also in quotation marks. Example: → <i>"Service Manual"</i>
→ Chapter <i>"Chapter heading"</i>	References to other chapters/sections are in italics. The title of the chapter/section is also in quotation marks. For example, → <i>"Jam Recovery"</i> chapter
<i>Homepage Giesecke+Devrient</i>	References to a website address are in italics.
1. list entry 2. list entry	In numbered lists, make sure you follow the sequence of list entries.
● list entry ● list entry	In unnumbered lists, the sequence of list entries is not important.
a) list entry b) list entry	In alphabetical lists, the list entries give alternatives.
	This symbol identifies important information.
*	* indicates optional components. Inquire if the option is available on your machine.

Conventions	Definition
[1]	Numbers in square brackets indicate individual operational steps. You must carry out these steps in the sequence indicated.
⇒	An arrow as shown after a step indicates the result of that step.

## 1.4.2 Document Conventions for Procedures (Instructions)

This section explains how procedures (instructions) are set out. Follow procedures step by step in the specified order.

Requirements for the Procedure

- Requirement 1
- Requirement 2



### **DANGER**

Safety information before the procedure

Applies to the whole procedure

Observe the measures to prevent risks at each step.

Procedure

[1] Perform this step.



[2] Perform this step. Note the image above.

⇒ Result of this step



Figure 1: Image of a Result

## Secondary Steps

- [3]** To perform this step:
- [3-1]** Perform this secondary step.
- [3-2]** Perform this secondary step.

## Prompts to Skip or Repeat Steps

- [4]** Prompt, e.g. has the error been rectified?  
No: → **[5]**  
Yes: → **[6]**
- [5]** Only carry out this step if you answered the above prompt with No.  
Continue with: → **[7]**
- [6]** Only carry out this step if you answered the above prompt with Yes.  
Continue with: → **[7]**
- [7]** Perform this step.

## Alternative Steps

- [8]** Select the appropriate alternative:  
For variant A: → **[8a]**  
For variant B: → **[8b]**
- [8a]** **Variant A**
- [8a-1]** Perform this step for variant A.
- [8a-2]** Perform this step for variant A.
- [8b]** **Variant B**
- [8b-1]** Perform this step for variant B.

## Result

- ⇒ Result of the procedure

### 1.4.3 Figures Used

The screenshots used are examples and may differ from what is actually shown on the display.

## 2 Safety

Before you work with our product, you must have previously read and understood the system operating instructions and especially the safety instructions they contain. You may only then operate and maintain our product if you are trained and authorized to do so. Remain conscious of safety as you work.

This chapter contains the following information:

- Overview of the general symbols for safety information
- Overview of the symbols identifying specific hazards
- Safety instructions for ProNote 130

### 2.1 Safety Information Symbols



#### **DANGER**

The symbol together with the signal word **DANGER** indicates an immediate danger to life or health.

Ignoring this warning results in death or serious injury.

The safety information tells you about the type and source of the danger, the consequences if it is not observed, and the measures to take to prevent the danger.



#### **WARNING**

The symbol together with the signal word **WARNING** indicates a possible danger to life or health.

Ignoring this warning may result in death or serious injury.

The safety information tells you about the type and source of the danger, the consequences if it is not observed, and the measures to take to prevent the danger.



#### **CAUTION**

The symbol together with the signal word **CAUTION** indicates a possible danger to health.

Ignoring this warning may result in minor injury.

The safety information tells you about the type and source of the danger, the consequences if it is not observed, and the measures to take to prevent the danger.

**NOTICE**

This symbol, with the signal word **NOTICE**, is used to identify warning information.

Ignoring this information may result in damage to parts of the product or jeopardize data consistency.

The safety information tells you about the type and source of the risk, the consequences if it is not observed, and the measures to take to prevent the risk.

## 2.2 Symbols Used to Identify Specific Hazards

Safety information with symbols for specific dangers tells you about the type and source for the risk, the consequences if it is not observed, and the measures to take to prevent the risk.



Risk of electric shock

This symbol indicates a danger of electric shock.



Risk of tripping

This symbol indicates a risk of tripping.

## 2.3 Safety Information

### 2.3.1 Proper Use

Our product has been constructed using the latest technology and is safe for operation. For your safety, you must use it appropriately and properly.

You must comply with the necessary safety measures for hazard-free use of the product. Failure to follow these instructions can put lives at risk or can damage the product.

Always take notice of the safety warnings, even if you are an experienced user with good system knowledge.

#### Proper Use

A banknote processing system may only be used to check banknotes for denomination, authenticity, and condition, to count and to sort them.

#### Improper Use

Improper use, for example, the singling of hard objects such as coins, paper clips and staples, is not permitted and will result in the invalidation of the warranty.



### 2.3.2 Prohibition of Unauthorized Modifications or Changes

For safety reasons, no changes may be made to the product without informing and receiving written approval from the manufacturer. Any unauthorized structural changes or additions invalidate the EU Declaration of Conformity for the product.  
Only genuine spare parts may be used for repair.

### 2.3.3 Circumstances Under Which the Product May Not Be Operated

The product may not be operated if the defined ambient and operating conditions are not fulfilled.

Depending on the product, you can find this data in the "Site and Facility Requirements" manual of the system operating instructions or in the "Site and Facility Requirements" or "Technical Data" section of the user manual.

If the product is not in an operational state for technical or other reasons, you must secure the product against being used.

### 2.3.4 Safety Information to Protect Personnel

Be sure to comply with national accident prevention regulations.

When using the product, ensure the following:

- Avoid wearing loose-fitting or open clothing.
- Remove ties, rings, watches, and jewelry before beginning work.
- Protect long hair with a scarf or hair net.

Refrain from any methods of operation that may compromise the operational safety of the product. Proceed in accordance with the safety information specified in the System Operating Instructions. Ensure that unauthorized personnel are kept away from the product.

Check the product for any externally identifiable damage and faults at least once a day. Immediately report any safety-related changes (including in the operating behavior) to the internal department responsible.

Only operate the product when it is in perfect working condition.

Do not remove any safety devices. Do not disable any safety devices. This can put lives at risk or can damage the product.

### 2.3.5 Safety Information for Software

The product has been designed to state-of-the-art software technology standards and is safe to operate. Failure to use the software correctly does not pose a hazard to the user.

Some basic knowledge of the software is required to use the product. Take care to consider the effects of changing or resetting parameters.

Incorrect use by insufficiently trained persons can lead to data loss and errors.

### 2.3.6 Electromagnetic Compatibility

At all stages of configuration, the ProNote 130 complies with the basic requirements of the EMC Directive (emitted interference and interference resistance).

### 2.3.7 Information on Special Dangers for the Operator

During operation of the product, observe the following information:

#### Electrical Voltage/Current

Work on live electrical parts and assemblies carries the risk of electric shocks. Only carry out this work if you are authorized to do so.

#### Ergonomics

Stand or sit in a comfortable manner. Arrange your workstation so that you can work ergonomically.

- Set your chair to the optimum position.
- Adjust the height of the work surface if possible.
- Set the screen to the optimum position if possible.

#### Non-Specified Materials

Dangers may arise from the use of non-specified materials such as cleaning material, sprays, lubricants, etc. If you use these materials, follow the manufacturer's safety instructions.

#### Dust

Never use compressed air to clean the product. Breathing in dust can lead to health problems. Dust in the air can also damage the bearings and electronic parts. No claims can be made under the warranty for parts that are damaged in this way. Always vacuum up



any dust with a suitable vacuum device, which is fitted with a micro-filter.



## 3 Overview of ProNote 130

### 3.1 General Information on the Product ProNote 130

ProNote 130 is a banknote counter and counterfeit detector. Depending on the operating mode selected, you can count the value and quantity of pre-sorted denominations, count single denominations or count pieces only. All counted banknotes are sorted to the stacker compartment. In case of a counterfeit or suspicious banknote, you are alerted and instructed on how to proceed. You can easily switch between the available currencies and operating modes. For counting pre-sorted banknotes in "VALUE BALANCING" mode, a detailed report of counting results is available. Detailed information on the display instructs you on how to handle the counting process in case of an error message.

This manual describes all the available options. The availability of these options depends on the configuration of the ProNote 130.



#### Important!

The technical data for external devices supplied by G+D is not included in this documentation.

#### Special Features

- Banknote counter with counterfeit detection
- Multi-language
- Selection of currency and counting mode (e.g. "VALUE BALANCING", "SINGLE" and "COUNT")
- Silencing key, reduction of speed
- Batch function with user-definable batch stop limit and addition function for accumulating counting results
- For counting pre-sorted banknotes detailed report of counting results (e.g. pieces and values of mixed denominations)
- Software updates via SD card and USB or downloading cable
- Security features, including UV, IR, MG and MT
- Standard interfaces, including external display, SD card slot and USB



#### Important!

The technical data is described separately.

→ Chapter 4 "Technical Data", p. 25

## 3.2 General Usage Information

### Increasing the Durability of the Product

To maximize the durability of the product:

- Arrange for service personnel to perform a checkup of the machine on a regular basis.
- Using a soft brush or cloth, clean the sensor module parts (inside of the open cover on the back side) daily.
- Do not place the product in a dusty space, making sure that the product stays free of dust and foreign substances.
- Keep and use the product under the optimal operating conditions.
- The machine is intended exclusively for indoors usage. Do not use it outdoors.
- Maintenance must only be performed by approved technicians. If any problems occur, consult the troubleshooting guide. If the problem persists, contact the authorized distributor for assistance.
- Do not attempt to disassemble or repair the product by yourself.
- Place the product away from heat sources or direct sun rays.
- Do not expose the device to liquids, extreme humidity, or moisture.
- Avoid operating the device in environments with strong magnetic and electromagnetic fields (e.g. away from magnets, other electrical appliances, etc.).
- Do not open or operate the product by force.
- Make sure to shut its power off before putting your hands inside the product (e.g. for cleaning or clearing note jamming only).

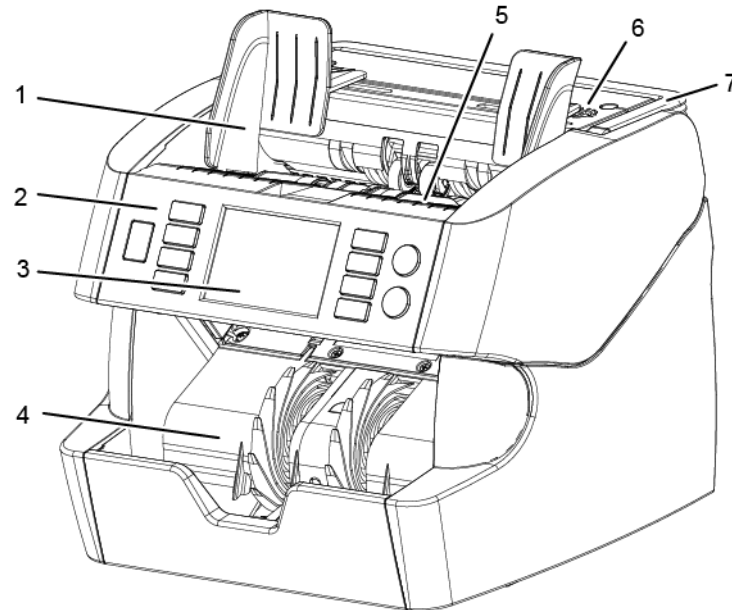
### Additional Safety Information

## 3.3 Front and Rear View of ProNote 130

This chapter shows the front and rear view of ProNote 130.

### 3.3.1 Front View

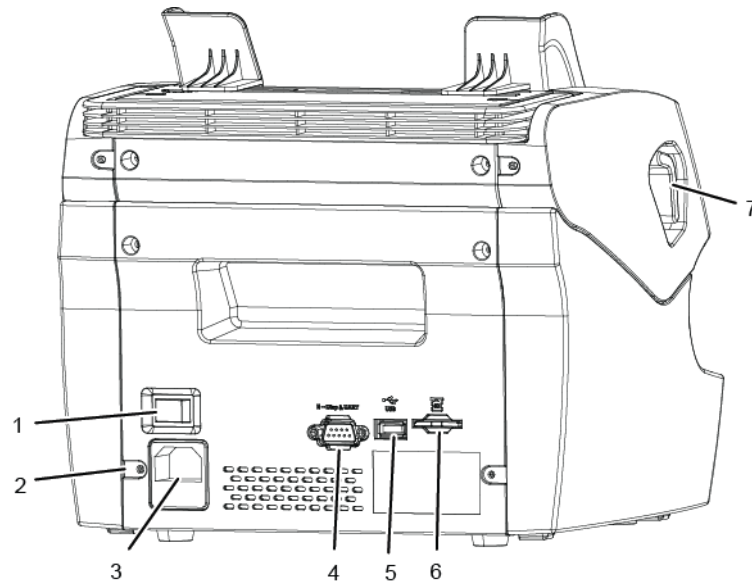
The ProNote 130 banknote processing machine has the following operating controls:



**Figure 2: Operating Controls**

- 1 Note guide  
Used for adjusting size of banknotes.
- 2 Control panel (operating keys)  
Used to select functions and navigate in the menu.
- 3 Display (touchscreen)  
Displays counting result, error code or setup details, etc.; touchscreen provides similar functionality as many keys of the control panel.
- 4 Stacker  
Contains counted notes to be stacked; in case of unidentified notes, you are requested to remove the last stacked note.
- 5 Singler  
Where you place the banknotes to count and sort; also referred to as hopper.
- 6 Feeding gap adjustment screw  
Used for shortening or widening the feed gap.
- 7 Handle  
Used for carrying machine.

### 3.3.2 Rear View



**Figure 3: Operating Controls**

- 1 Power switch  
Used for switching the machine on and off.
- 2 Fuse holder  
Can be opened to replace fuse.
- 3 Power socket  
Connection for the power cable.
- 4 External display  
Optional display; connector type DP9.
- 5 USB  
For connection to PC
- 6 SD card slot  
For update
- 7 Access to transport section  
Can be opened to access note path for cleaning and clearing jam.



## 3.4 Control Panel

The control panel consists of various keys and a display.



Figure 4: Control Panel

### 1 Status LED

Meaning of color:

- Green: No error while counting notes.
- Red: Counterfeit or suspicious note in stacker. Blinks slowly during standby.
- Blinking green: ProNote 130 banknote processing machine is offline.

### 3.4.1 Touchscreen Display

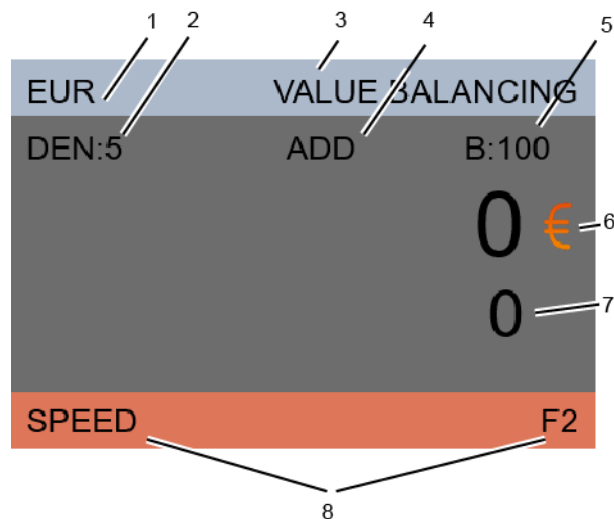


Figure 5: Example of VALUE BALANCING



#### Important!

The touchscreen provides similar functionality as many keys of the control panel.

→ Section 3.4.2 “Keys of the Control Panel”, p. 18

1	Selected currency	Other currencies available. The "AUTO" symbol indicates automatic recognition of the first banknote.
2	Selected denomination	Denomination selected in "VALUE BALANCING" mode.
3	Selected mode	Selection of the operating mode (e.g. "VALUE BALANCING" mode).
4	ADD function	If active, counting results are added to previous counting results until cleared again.
5	Batch function	If active, the ProNote 130 banknote processing machine will stop when the batch stop limit is reached. Entry of batch stop limit used by counter.
6	Counted amount (value)	Total amount of counted banknotes.
7	Counted quantity (pieces)	Quantity (pieces) only.
8	User-defined buttons	Configurable via user menu (e.g. for printing counting results).

### 3.4.2 Keys of the Control Panel



#### Important!

The touchscreen provides similar functionality as many keys of the control panel.

→ *Section 3.4.1 "Touchscreen Display", p. 17*

<b>ADD</b>	<p>When active, adds counting results to existing counting results until cleared again.</p> <p>When the "ADD" function is activated (e.g. "VALUE BALANCING" mode), the lower right corner of the screen displays "Σ:0". This shows the total value of accumulated notes after removing them from the stacker.</p> <p>→ <i>Section 6.5 "Adding Counting Results", p. 41</i></p>
<b>BATCH</b>	<p>Used to select or enter individual quantity of notes for the batch stop limit counter.</p> <p>The banknote processing machine automatically stops when batch stop is reached.</p> <p>→ <i>Section 6.6 "Enabling and Disabling Batch Counting", p. 42</i></p>

silencing symbol	Reduces noise by reducing the counting speed. → <i>Section 6.7 "Reducing Noise and Counting Speed", p. 43</i>
<b>F1</b>	User-defined button (default setting: SPEED). Configurable via the user menu. → <i>Section 7.3 "Setting Function of User-Defined Keys", p. 47</i>
<b>MODE</b>	Selection of the mode. → <i>Section 6.4 "Selecting the Operating Mode", p. 40</i>
currency symbol	Selection of the desired currency. In "VALUE BALANCING" mode, press and hold to switch to next denomination (equivalent to pressing the "Deno" symbol on the touchscreen). Also used for navigating upwards in the user menu. → <i>Section 6.3 "Selecting the Currency", p. 40</i>
<b>DETAIL</b>	When pressed, displays details of the counting result in "VALUE BALANCING" mode. Also used for navigating downwards in the user menu. → <i>Section 6.8 "Displaying Details of the Counting Result", p. 43</i>
<b>F2</b>	User-defined button; configurable via the user menu (e.g. for enabling printing).
<b>MENU</b>	Press to enter the menu; press to confirm and save a setting. → <i>Chapter 7 "Defining Settings via the User Menu", p. 45</i>
<b>Start/Clear</b>	Push to manually start counting (e.g. after correcting an error). Press and hold about 2 seconds to clear previous counting results. Also works as clear key to return to the previous screen or quit/leave the menu. → <i>Section 6.9 "Starting Counting and Clearing", p. 44</i>

## 3.5 Counting Modes

The **MODE** key enables you to switch between modes.



### Important!

The touchscreen provides similar functionality as many keys of the control panel.



Mode	Description	Results
<b>VALUE BALANCING</b>	<p>Mode used for performing addition when performing cash balancing.</p> <p>Counts the value of sorted banknotes of same currencies in one automatic counting process, from the smallest to the largest denomination.</p> <p>You can skip a specific denomination by pressing and holding the currency key (or select the next denomination by touching the denomination area on the upper left screen).</p> <p>To reset the counting result and denomination:</p> <ul style="list-style-type: none"> <li>• When ADD is off, press and hold the <b>Start/Clear</b> button.</li> <li>• When ADD is on, press the <b>F2</b> button or touch the sum up area on the lower right corner of the screen. You are requested to press the <b>Menu</b> key to confirm.</li> </ul>	Counted amount and quantity (pieces) of pre-sorted notes.
<b>SINGLE</b>	<p>Single denomination counting.</p> <p>Use this mode to count single denominations. The first note detected determines which notes will be counted and rejected.</p>	The counted quantity (pieces) are displayed.
<b>COUNT</b>	<p>Counting mode; also sometimes referred to as piece counting mode.</p> <p>In this mode, the currency "ANY" is selected.</p> <p>Use this mode for counting the quantity (pieces) only of banknotes. In this mode, counterfeit detection is disabled.</p>	The quantity (pieces) only is displayed.

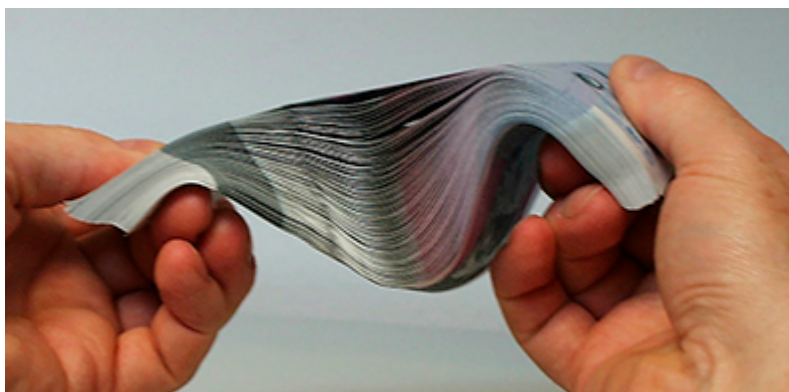
### 3.6 Preparing Banknotes

[1] If necessary, remove the straps.

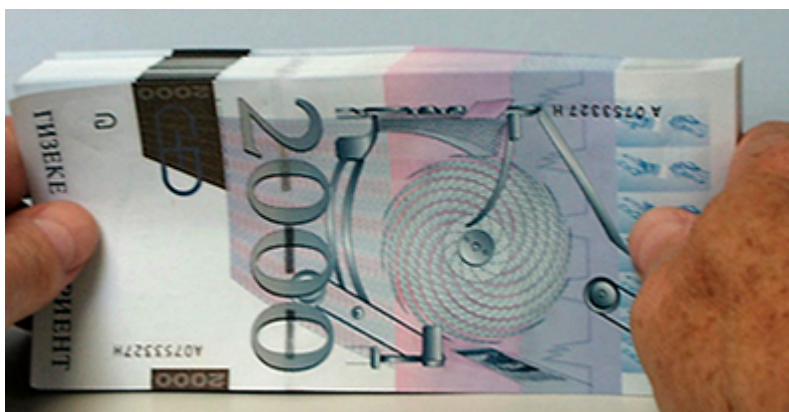
- [2] Proceed according to internal regulations.



- [3] Fan the banknotes up.



- [4] Fan the banknotes down.



- [5] Straighten the banknote stack.
- [6] Make sure that the edges are flush.
- [7] Smooth the banknotes and remove dog-ears.

**Important!**

Proper banknote preparation improves the banknote processing and increases the throughput.

**NOTICE**

Objects such as clips, paperclips, or rubber bands

Risk of damaged machine/device

Make sure that there are no objects on the banknotes.

Only place banknotes in the singler.

**[8]** Before inserting the banknotes in the singler, sort out banknotes with the following characteristics:

- Extreme damage
- Heavy soiling
- Folded/kinked banknotes
- Very creased banknotes
- Folded banknotes



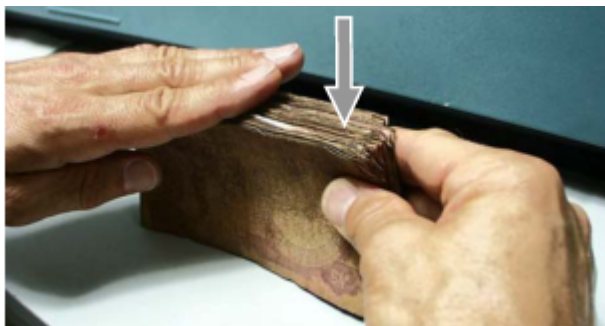
Figure 6: Poor quality banknote

**[9]** Place these banknotes to one side for manual inspection.

**[10]** Before placing the banknotes in the singler, make sure that the banknotes are not arched downward along their length.

Particularly poor quality banknotes

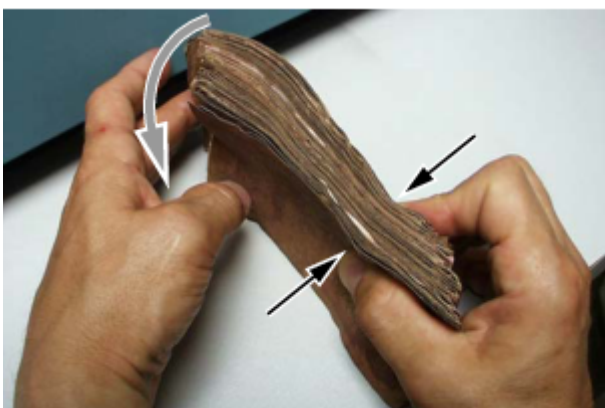
The following procedure is recommended in addition:



**[11]** Straighten the BN lengthwise.



**[12]** Fan the right side of the BN package.



**[13]** Fan the left side of the BN package.





**[14]** Shift the BN sideways.

**[15]** Bend the BN in the middle.



**[16]** Smooth any bent leading edges and dog-ears.




## 4 Technical Data

This chapter contains the technical data for the product and describes the requirements that must be met at the installation site to safely operate the product.

Moisture content of the banknotes to be processed	<ul style="list-style-type: none"> <li>Relative humidity: 35 % – ca. 65 % r.H.</li> <li>Moisture content of the banknotes: 4.5 g/kg at 20 °C (water/kg of banknotes)</li> </ul>
Capacity	<ul style="list-style-type: none"> <li>Singler: 300 notes</li> <li>Stacker: 200 notes</li> </ul>
Dimensions (D x W x H) without packing	263 x 268 x 210/255 mm with/without guides
Dimensions (D x W x H) with packing	315 x 360 x 320 mm
Weight	6.3/7.3 kg (without packing/with packing)
Operating temperature	0 °C – +40 °C
Room humidity	40 % – 90 % r.H.
Voltage	100 – 240 V ± 10 %
Frequency	50 Hz – 60 Hz ± 1 %
Fuse protection	F3A, 250 V Quick-break
Maximum current consumption	1.5 A
Electrical power consumption	<60 W
Noise level values according to test report	76.5 dB(A) The uncertainty comprises ±2 dB (A).
External interfaces	<ul style="list-style-type: none"> <li>DP9 for optional display</li> </ul>

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	<ul style="list-style-type: none"> <li>• SD card slot: For software updates; must be inserted for network (LAN)</li> <li>• USB: For software updates/data collection</li> </ul>
Minimum installation area	1200 mm x 640 mm
Exposure to magnetic fields in installation room	<p>Avoid exposure to strong magnetic fields (e.g. monitors, high-voltage cables or high-voltage transformers), because external magnetic fields will influence the measuring accuracy of the magnetic sensor.</p> <p>Maintain a minimum distance of two meters to the product from mobile end devices which are switched on.</p>
Type label on back side of machine	 <p>The label contains the following information:</p> <ul style="list-style-type: none"> <li><b>G+D</b> Currency Technology</li> <li>Prinzregentenstrasse 159, 81677 Munich, Germany</li> <li><b>Banknote Processing Machine</b></li> <li>Model <b>ProNote 130</b> YoM 2020</li> <li>Serial-No.</li> <li>Input 100-240V AC, 50/60Hz 1.5A</li> <li>Fuse 3A/250V Quick-break</li> <li>Made in China</li> <li><b>RoHS</b> and <b>CE</b> marks</li> </ul>

## 5 Installation

The following must be observed during the installation.

### 5.1 Transport

Please take note of the following information during transport.

Make sure that the unloading area at the installation site is dry and protected from the elements.

Please take note of the following safety information during transport.



#### WARNING

Incorrectly transporting heavy equipment

Danger of personal injury, damage to property and to a loss of warranty

When transporting the machine, follow the legal regulations on transporting heavy equipment.

- Use appropriate lifting and transport equipment.
- Use personal protective equipment.
  - Safety shoes
  - Gloves



#### DANGER

Danger of electric shock

Danger of death or serious injury from electric shock

Always unplug the machine by pulling on the plug and never by pulling on the cable.



#### NOTICE

Existing plug connections

Risk of damage to the machine during transportation.

Unplug all plug connections.

#### 5.1.1 Transporting Inside Buildings

You can transport the ProNote 130 product inside buildings without special packaging.

You must carry the ProNote 130 product as follows:

##### Procedure

- [1] Grasp the handles with the fingertips of both hands.

- [2]** Hold the machine against your upper body.
- [3]** Support the machine with your forearms at either side.

### 5.1.2 Transport Outside of Buildings

When transporting the product ProNote 130 outside of buildings you must transport it in the original packaging or equivalent.

## 5.2 Unpacking

The packaging, including content, consists of the following components:

- Accessories including:
  - USB cable (2 x Type A male)
  - Safety information and documentation
  - Cleaning brush
  - Any other items (e.g. calibration paper)

The power cable can be ordered separately (suggestion: purchase locally).

### Procedure

- [1]** If shipped on a pallet, remove the cardboard box from the wooden shipping pallet.



### Important!

Note the following:

- If two ProNote 130 machines are shipped in one shipping box, remove each of the cardboard boxes.
- Remove any plastic sealing straps wrapped around the cardboard box.



### Important!

If the seal is broken or damaged, check the content before signing the receipt.



- [2] Carefully cut open the adhesive tape on the outer cardboard box and open it.



- [3] Remove the two pieces of packing foam and accessories from the top.



- [4]** Gently pull the ProNote 130 machine out of the cardboard box and remove any foam packing.



**Important!**

You can also place the cardboard box on the side and then remove the machine.

- [5]** Remove the ProNote 130 machine from the plastic bag.



**Important!**

Check the machine for any damage during transport.

- [6]** Retain the packaging for possible future transport.

## 5.3 Installing and Connecting

Requirement

The machine is unpacked.

Items Supplied

Check the items supplied:

- ProNote 130 machine

External devices (e.g. such as printers, or external displays) are optional and must be ordered separately.

The mains cable (country-specific) is supplied separately.

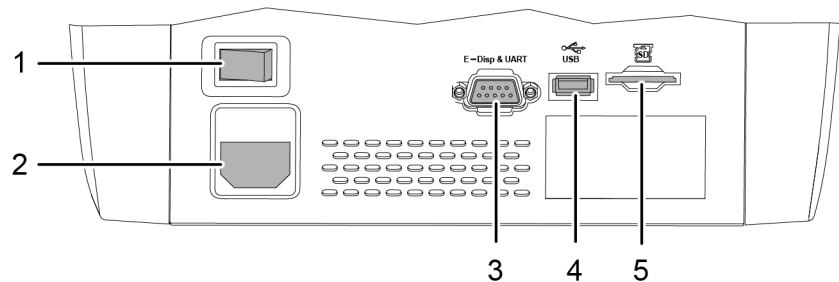


Figure 7: Connections

- 1 Power switch
- 2 Connection for power cable
- 3 External display DP9
- 4 USB
- 5 SD card slot



### DANGER

Danger of electric shock

Damaged cables or plugs can cause electric shock, short circuits, fire, etc. This may result in death or serious injury.

- Ensure that plugs or cables are not crushed or placed under extreme weight.
- Ensure that the cables are routed safely.
- Ensure that the cables do not hang out.



### CAUTION

Cables are routed along the floor.

Danger of tripping

Make sure that all cables are routed safely.

## Procedure

**NOTICE**

Skewed installation of the machine/device

Risk of impaired function

1. Make sure the machine/device is on a horizontal table top.
2. Make sure that no objects, such as pens or screwdrivers, are located underneath the machine/device.

**[1]** Place the machine on a suitable, sufficiently stable surface.

**[2]** Make sure that the machine and all cable connections are easily accessible.

**[3]** Make sure that the machine is easy to open.

**[4]** Connect the power cable (2).

**[5a]** Connect external display 3).

**[5b]** Connect USB device (4).

**[6]** For software updates, insert SD card (5).

## 5.4 Disposal

Dispose the transport packaging and the product after the discontinuation of use according to the local legal requirements.



## 6 Operating ProNote 130

This chapter contains information on how to operate the machine.  
Please note the following:



### NOTICE

Ensure that no metal objects (for example, staples) and/or liquids find their way into the machine/device.

Risk of damaged machine/device

If metal objects and/or liquids get into the machine/device:

1. Switch off the machine/device.
2. Disconnect the machine/device from the power supply.
3. Have the machine/device checked by qualified personnel before continuing work.



### Important!

You may need to set the language of the user interface via the user menu if not already set.

→ *Section 7.9 “Changing Language of User Interface”, p. 53*

### 6.1 Switching the Machine On and Off

This procedure describes how to switch on and off the machine.  
The power switch is located on the rear side of the machine.

#### Switching On

- [1] Press the main power switch to the on position (i.e. opposite position of **O**).

⇒ The machine will power up and display the software version and a short self-test is performed.



### Important!

If an error message is displayed, refer to the error message in the appendix or contact service.

After booting up, the main screen appears and the machine enters the ready state.

## Switching Off

**Important!**

All unsaved results will be deleted when the machine is switched off.

- [2]** Print or save your results if necessary,
- [3]** Press the power switch to the position **O**.  
⇒ The machine is switched off.

## 6.2 Counting Banknotes

### 6.2.1 Suggestions for Good Banknote Feeding

#### Checking Banknotes

- Remove banknotes which are wet, dirty, spoiled, severely damaged or mixed with alien substances.
- Check for bad quality banknotes and remove kinks, folds and dog ears.
- Check the note bundle for foreign objects which could jam the note path or even damage the sensors (e.g. coins, clamps, paper clips, rubber bands, dust, etc.).

#### Feeding Banknotes

- Based on the size of the banknotes, adjust the left and right singler guide to a suitable position.
- Properly arrange banknotes before placing them onto the singler. Align all the corners and edges of the notes, since unevenness could cause errors.
- Fan bundles to avoid banknotes from sticking to each other.
- Place the bundle with the aligned side towards the singler. Always place the banknotes from above and centered onto the singler.  
By default, the machine will then start counting automatically.
- To achieve a good feeding even with bad quality notes, you may guide the bundle gently with 2 fingers while counting.  
Before counting, hit the bundle at the long side on a bench to align the notes.
- Take care that the notes do not move sideways on the singler.

### 6.2.2 Counting Pre-sorted Denominations (VALUE BALANCING Mode)

This procedure describes how to count pre-sorted denominations (e.g. from smallest to largest) of the same currency in one counting

process. The "DEN:" symbol on the display specifies which denomination is to be counted first (e.g. first 5, then 10, 20 and next highest). You can skip a denomination by holding down the currency key or pressing the "DENO" symbol on the touchscreen. After counting your denominations, you can press the **DETAIL** key to view results, including amounts and quantities of individual denominations.

## Requirements

- The machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*
- The currency has been selected and additional functions such as **ADD** or **BATCH** have been enabled or disabled as needed.  
→ *Section 6.3 "Selecting the Currency", p. 40*  
→ *Section 6.5 "Adding Counting Results", p. 41*  
→ *Section 6.6 "Enabling and Disabling Batch Counting", p. 42*
- Banknotes have been pre-sorted from smallest to largest denomination (e.g., 5, 10, 20, 50, 100 and next highest denomination).
- The banknotes guides of the machine have been adjusted according to the banknote size.

## Procedure



### Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [1]** Press the **MODE** key on the display panel and press again until **VALUE BALANCING** is displayed.

⇒ The selected mode is displayed.

The "DEN:" symbol on the display displays the lowest denomination to be counted.



### Important!

To skip a denomination, hold down the currency key or select the next denomination by pressing "DEN:" symbol on the touchscreen.



### Important!

- Be careful when placing banknotes on the singler. Keep your hands away from the singler and stacker while counting and sorting banknotes.
- Pay attention to the suggestions for good banknote feeding.  
→ *Section 6.2.1 "Suggestions for Good Banknote Feeding", p. 34*

**[2]** Gently place the pre-sorted banknotes (e.g. from smallest to biggest) to be counted on the singler. Always place the banknotes from above and centered to the singler.

⇒ After removing the banknotes from the stacker, the "DEN:" display changes to the next denomination to be counted.



### Important!

To skip a denomination, hold down the currency key or select the next denomination by pressing **DEN:** symbol on the touchscreen.

The display shows the counting results (amount and quantity).



### Important!

To reset the counting result and denomination:

- When ADD is off, press and hold the **Start/Clear** key
- When ADD is on, press the **F2** key or touch the sum up area on the lower right corner of the screen and confirm with the **MENU** key.

**[3]** In case of an error message, follow the instructions on the screen.

**[4]** At the end of processing, press the **DETAILS** key on the display panel to view and evaluate details of the current

sort action (e.g. amount and quantity of each denomination).

→ *Section 6.8 “Displaying Details of the Counting Result”, p. 43*

Result



The pre-sorted denominations of the same currency are counted and the counting details are displayed (amount and quantity).

### 6.2.3 Counting Single Denominations

This procedure describes how to count single denominations of the same currency.

The first banknote detected in the stack specifies the denomination to be singled out.

Requirements

- The machine is switched on.  
→ *Section 6.1 “Switching the Machine On and Off”, p. 33*
- The currency has been selected and additional functions such as **ADD** or **BATCH** have been enabled or disabled as needed.  
→ *Section 6.3 “Selecting the Currency”, p. 40*  
→ *Section 6.5 “Adding Counting Results”, p. 41*  
→ *Section 6.6 “Enabling and Disabling Batch Counting”, p. 42*
- The first denomination in the stack of banknotes is the denomination to be counted.
- The banknote guides of the machine have been adjusted according to the banknote size.

Procedure



#### Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [1] Press the **MODE** key on the control panel press again until **SINGLE** is displayed.

→ *Section 3.4.2 “Keys of the Control Panel”, p. 18*

⇒ The selected mode is displayed.

**Important!**

- Be careful when placing banknotes on the singler. Keep your hands away from the singler and stacker while counting and sorting banknotes.
- Pay attention to the suggestions for good banknote feeding.  
→ *Section 6.2.1 “Suggestions for Good Banknote Feeding”, p. 34*

**[2]** Gently place the banknotes to be sorted to the singler. Always place the banknotes from above and centered onto the singler.

⇒ The singled banknotes are sorted to the stacker compartment. In case of a reject or suspicious banknote, follow the instructions on the screen.

**Important!**

When a counterfeit note is detected, the machine will stop immediately and a buzzer will sound if configured. The status LED illuminates in red.

→ *Section 7.7 “Setting Alarm Beep”, p. 51*

In this case, the top note will be either a counterfeit or suspicious note to be checked. In this case remove the counterfeit note and press the **Start/Clear** key to continue counting.

The display shows the counting results (e.g. the quantity of singled banknotes).

**[3]** In case of an error message, follow the instructions on the screen (e.g. remove the last banknote or remove all banknotes and pass again).

→ *Chapter A “Error Messages”, p. 73*

Result

⇒ Single denominations are counted and sorted, and the counting results are displayed.

## 6.2.4 Counting Banknotes

This procedure describes how to count the quantity (i.e. pieces) of banknotes. This mode is also referred to as piece counting or free-count mode. Counting mode is used when you want to count different types of banknotes or papers. When finished, the total amount of banknotes is displayed.

No value counting or testing of banknotes is active in this mode.

In this mode, counterfeit detection is disabled.

## Requirements

- The machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*
- The currency "ANY" has been selected and additional functions such as **ADD** or **BATCH** have been enabled or disabled as needed.  
→ *Section 6.5 "Adding Counting Results", p. 41*  
→ *Section 6.6 "Enabling and Disabling Batch Counting", p. 42*
- The banknote guides of the machine have been adjusted according to the banknote size.
- "COUNT" mode has been enabled.  
→ *Section 7.8 "Configuring the Mode", p. 52*

## Procedure



### Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [1]** Press the **MODE** key on the control panel press again until **COUNT** is displayed.  
→ *Section 3.4.2 "Keys of the Control Panel", p. 18*  
⇒ The selected mode is displayed.



### Important!

- Be careful when placing banknotes onto the singler. Keep your hands away from the singler and stacker while counting and sorting banknotes.
- Pay attention to the suggestions for good banknote feeding.  
→ *Section 6.2.1 "Suggestions for Good Banknote Feeding", p. 34*

- [2]** Gently place the banknotes to be counted onto the singler. Always place the banknotes from above and centered onto the singler.  
⇒ All counted banknotes are sorted to the stacker compartment. In case of a reject or suspicious banknote, follow the instructions on the screen.  
The display shows the counting results (e.g. the quantity only).

- [3]** In case of an error message, follow the instructions on the screen (e.g. remove the last banknote or remove all banknotes and pass again).

→ *Chapter A “Error Messages”, p. 73*

Result ⇒ The banknotes are counted and the counting results are displayed.

## 6.3 Selecting the Currency

The procedure describes how to select the currency to be used.

In VALUE BALANCING mode, you can press and hold the currency key to switch to the next denomination instead of selecting it via the touchscreen.

Requirements


- The machine is switched on.  
→ *Section 6.1 “Switching the Machine On and Off”, p. 33*

Procedure



### Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [1]** Press the currency selection key  on the control panel and press again until the desired currency is displayed.

→ *Section 3.4.2 “Keys of the Control Panel”, p. 18*

⇒ The currency is displayed.

Result ⇒ The currency is selected.

## 6.4 Selecting the Operating Mode

The procedure describes how to select the operating mode to be used. For more information on the available operating modes, refer to the referenced section below.

→ *Section 3.5 “Counting Modes”, p. 19*



## Requirements

- The machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*
- Modes to be used are enabled.  
→ *Section 7.8 "Configuring the Mode", p. 52*
- To use "COUNT" mode, it must be enabled and the currency "ANY" must be selected.

## Procedure



### Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [1] Press the **MODE** key on the control panel and press again until the desired mode is displayed.  
→ *Section 3.4.2 "Keys of the Control Panel", p. 18*
- ⇒ The mode is displayed.
- ⇒ The mode is selected.

## Result

## 6.5 Adding Counting Results

This procedure describes how to add counting results to previous counting results until cleared again. Also referred to as accumulation mode or cumulative counting. All banknote bundles will be counted together instead of restarting the counting with every new bundle.

### Clearing the Accumulated Total

When the "ADD" function is activated while in "VALUE BALANCING" mode, the lower right corner of the screen displays "Σ:0". This shows the total value of the counted notes after removing the notes from the stacker.

- **F2** key  
Reset the total value after confirmation.

## Requirements

- The machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*
- The ADD function is enabled via the **ADD Function** menu of the user menu.  
→ *Section 7.12 "Setting ADD Function", p. 56*

## Procedure



### Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [1] Press the **ADD** key on the control panel.  
→ *Section 3.4.2 "Keys of the Control Panel", p. 18*  
  
⇒ "ADD" is displayed.  
When counting banknotes, the results will added to the previous counting results until cleared again (e.g. via **F2** key).
- [2] To disable again, select press the **ADD** key on the control panel.

## 6

## 6.6 Enabling and Disabling Batch Counting

This procedure describes how to enable and disable the batch counting function. A batch is where the machine is set to count a specific number of notes. When the specified number is reached, the machine will stop automatically. After you remove the banknotes from the stacker, the counter will begin counting the next batch.

For batch mode, you enter the batch stop limit, indicating when the machine should stop. This allows you to stack the banknotes according to the batch amount specified.

### Requirements

- The machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*

## Procedure



### Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [1] Press the **BATCH** key on the control panel or touch on the batch symbol on the display and enter the amount (up to 9,999) using the numeric keys (e.g. 20) and confirm by pressing the return key symbol.  
  
⇒ The batch function is enabled or disabled. If enabled, the machine prompts you when the specified batch stop amount is reached.

### Result

## 6.7 Reducing Noise and Counting Speed

This procedure describes how to reduce noise and counting speed when processing banknotes.

### Requirements

- You are counting or sorting banknotes on the banknote processing machine.

### Procedure



#### Important!

The silencing symbol is located below the **BATCH** key on the control panel.

- [1] During processing, press the silencing key on the control panel.

→ *Section 3.4.2 "Keys of the Control Panel", p. 18*

### Result

⇒ The noise and counting speed are reduced.

## 6.8 Displaying Details of the Counting Result

This procedure describes how to display details of the counting result (e.g. pieces and values of mixed denominations).

### Requirements

- You are using "VALUE BALANCING" mode to count pre-sorted banknotes from smallest to highest denomination.
- Banknotes have been counted or sorted on the banknote processing machine.

### Procedure



#### Important!

The touch screen provides similar functionality as many keys of the control panel.

- [1] After counting banknotes, press the **DETAIL** key on the control panel.

→ *Section 3.4.2 "Keys of the Control Panel", p. 18*

⇒ The details for the counting result are displayed for evaluation.

The pieces and values are displayed for each of the denominations.

**Important!**

Press the **DETAIL** button to go to the next page.

Result



The details of the counting results are displayed for further evaluation.

## 6.9 Starting Counting and Clearing

This procedure describes how to start counting and clear results.

Requirements

- The banknote processing machine is switched on.  
→ *Section 6.1 “Switching the Machine On and Off”, p. 33*

Procedure

- [1]** Press the **Start/Clear** key on the control panel.  
→ *Section 3.4.2 “Keys of the Control Panel”, p. 18*

Depending on the action being performed, the button has the following functions:

- Start counting
- Clear counting result when pressed and held down for a few seconds
- When selecting settings, return to the previous screen or quit/leave the menu

Result



The counting and clearing action is performed accordingly.

## 7 Defining Settings via the User Menu

This chapter describes how to define settings via the user menu.

→ Section 7.2 “How to Access the User Menu”, p. 47

### 7.1 User Menu

#### Overview of Menu Settings

When you press the **MENU** key on the control panel, the **User Menu** is displayed for defining user settings.




#### Important!

In many of the menus, selecting **BACK** takes you back to the previous menu and selecting **EXIT** exits the menu. Press the **Start/Clear** button to go back to a previous level.



#### Important!

On ProNote 130 banknote processing machines, the currency key  and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

Setting	Description
<b>F1 FUNCTION KEY</b>	Defines the menu assignment for the <b>F1</b> function key (e.g. assign <b>USER SETTINGS</b> to this key for printing reports). → Section 7.3 “Setting Function of User-Defined Keys”, p. 47
<b>F2 FUNCTION KEY</b>	Defines the menu assignment for the <b>F2</b> function key similar to the F1 function key above.
<b>USER SETTINGS</b>	Saves settings for the first or second user. You can switch between the first or second user on the ProNote 130 banknote processing machine by pressing down the <b>F1</b> and <b>F2</b> keys for 2 seconds on the control panel. → Section 7.4 “Saving User Settings as Shortcuts”, p. 48
<b>SPEED</b>	Depending on the mode selected, allows you to select the speed (e.g. low speed, medium speed or high speed).

Setting	Description
	→ <i>Section 7.5 "Selecting Counting Speed", p. 49</i>
<b>VERSION</b>	Display system information, including version of hardware, software and other relevant information. → <i>Section 7.6 "Checking Version Information of Machine", p. 50</i>
<b>ALARM BEEP</b>	Used to select whether the alarm beep is on or off. → <i>Section 7.7 "Setting Alarm Beep", p. 51</i>
<b>CONFIG MODE</b>	Allows you to set "COUNT" mode on or off for example. If disabled, counting mode will not be displayed. → <i>Section 7.8 "Configuring the Mode", p. 52</i>
<b>LANGUAGE</b>	Used to select the language of the user interface. The currently supported languages are displayed (others on request). → <i>Section 7.9 "Changing Language of User Interface", p. 53</i>
<b>AUTO MANUAL SET</b>	Used to set automatic or manual counting mode when placing bank-notes onto the singler. → <i>Section 7.10 "Setting Auto Counting", p. 54</i>
<b>MENU BUTTON DELAY</b>	Selects whether the menu button delay is on or off (for normal users, this option is set to off). → <i>Section 7.11 "Setting Button Delay", p. 55</i>
<b>ADD FUNCTION</b>	Select whether the <b>ADD</b> key on the control panel is set on or off. The <b>ADD</b> function adds results to previous counting results until cleared again or until the limit is reached. → <i>Section 7.12 "Setting ADD Function", p. 56</i>
<b>USER PARA DEF</b>	Used for restoring user parameters to defaults when performing software updates. A warning message informs you before you continue. → <i>Section 7.13 "Restoring User Parameters to Default Values", p. 57</i>
<b>TOUCH CALIBRATION</b>	Performs touch calibration as instructed. → <i>Section 7.14 "Calibrating Screen", p. 58</i>
<b>EXIT</b>	Exits the user menu and returns to the operating mode selected.

## 7.2 How to Access the User Menu

This procedure describes how to define user settings via the user menu.

### Requirements

- The banknote processing machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*

### Procedure

- [1] Press the **MENU** key on the control panel.  
→ *Section 3.4.2 "Keys of the Control Panel", p. 18*  
⇒ The "User Menu" screen is displayed.



#### Important!

On ProNote 130 banknote processing machines, the currency key and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Navigate to the desired menu and press the **MENU** key to accept.  
⇒ The screen of the selected setting is displayed.



#### Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.

- [3] Navigate to the desired setting and press the **MENU** key to accept the setting.  
→ *Section 7.1 "User Menu", p. 45*  
⇒ A confirmation message displays that the action was successful.  
⇒ User settings are saved for future use.

### Result

## 7.3 Setting Function of User-Defined Keys

This procedure describes how to assign functions of the user menu to the function keys. Afterwards, you can press the function key on the control panel to directly access the assigned function.

This is a type of shortcut which allows you to access a menu function without having to open the user menu first (e.g. assign the speed function to the **F1** key).


## Requirements

- The banknote processing machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*

## Procedure

- [1]** Press the **MENU** key on the control panel.  
→ *Section 3.4.2 "Keys of the Control Panel", p. 18*  
⇒ The "User Menu" is displayed.

**Important!**

On ProNote 130 banknote processing machines, the currency key  and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

- [2]** Navigate to **1 FUNCTION KEY** or **F2 FUNCTION KEY** and press the **MENU** key again to accept.  
Menu Settings PN300

- [3]** Navigate to the desired function to be assigned to the function key (e.g. **SPEED**) and press the **MENU** key to accept.

⇒ A confirmation message displays that the assignment was successful. The function is assigned to the function key on the control panel.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

## Result

- ⇒ The function is assigned to the function key on the control panel and can be used for future use.

## 7.4 Saving User Settings as Shortcuts

This procedure describes how save the user settings. Afterwards, you can change between user 1 and user 2 by pressing and holding the **F1** and **F2** function keys for two seconds.

## Requirements

- The banknote processing machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*

## Procedure

- [1]** Press the **MENU** key on the control panel.



→ Section 3.4.2 "Keys of the Control Panel", p. 18

⇒ The "User Menu" is displayed.



### Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.



### Important!

On ProNote 130 banknote processing machines, the currency key and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

[2] Navigate to **USER SETTINGS** and press the **MENU** key again to accept.

⇒ The "USER SETTINGS" screen is displayed.

[3] Navigate to the desired setting:

- **USER1:SAVE**

Saves the settings of user 1. After starting the machine, you can switch to user 1 by pressing the **F1** function key for two seconds.

- **USER2:SAVE**

Saves the settings of user 2. After starting the machine, you can switch to user 2 by pressing the **F2** function key for two seconds.

[4] Press the **MENU** key.

⇒ A confirmation message is displayed that the settings were saved.

Result

⇒ User settings are saved accordingly.

## 7.5 Selecting Counting Speed

This procedure describes how to select the counting speed.

Requirements

- The ProNote 130 banknote processing machine is switched on.

Procedure


[1] Press the **MENU** key on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

On ProNote 130 banknote processing machines, the currency key  and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

[2] Navigate to **SPEED** and press the **MENU** key to accept.

⇒ The "SPEED" screen is displayed.

**Important!**

**SPEED H** is not available in "VALUE BALANCING" mode.

[3] Navigate to the desired speed:

- **SPEED L**  
Low counting speed (i.e. 1000 banknotes per minute).
- **SPEED M**  
Medium counting speed (i.e. 1200 banknotes per minute).
- **SPEED H**  
High counting speed (i.e. 1500 banknotes per minute).

[4] Press the **MENU** key to accept.

⇒ The counting speed is changed accordingly. Return is made to the "User Menu" screen.

## 7.6 Checking Version Information of Machine

This procedure describes how to display detailed the version information of the ProNote 130 banknote processing machine. You can also display the installed adaptations.

### Requirements

- The ProNote 130 machine is switched on.

[1] Press the **MENU** key on the control panel.

⇒ The "User Menu" is displayed.



### Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.



### Important!

On ProNote 130 banknote processing machines, the currency key and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

[2] Navigate to **VERSION** and press the **MENU** key to select.

⇒ The "VERSION" screen is displayed.

Version information is displayed (e.g. HardVers:  
31.1.0.3.3.7.3.0.23).



### Important!

Use the currency key and the **DETAIL** key to scroll between the pages.

[3] Press the **DETAIL** key to view the next page (e.g. currencies).

⇒ The implemented currencies are displayed.

## 7.7 Setting Alarm Beep

This procedure describes how to set the alarm beep function.

### Requirements

- The machine is switched on.

### Procedure

[1] Press **MENU** key on the control panel.


⇒ The "User Menu" is displayed.



### Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

On ProNote 130 banknote processing machines, the currency key  and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Navigate to **ALARM BEEP** and press the **MENU** key to accept.

⇒ The "ALARM BEEP" screen is displayed.

- [3] Navigate to the desired setting:

- **BUTTON SOUND**

Button sound can be switched on or off.

- **ALARM SOUND**

Alarm sound can be switched on or off.

- [4] Press the **MENU** key to select.

- [5] Use the navigation key to set on or off and select press the **MENU** key to accept.

⇒ The button sound and alarm sound are set accordingly.

## 7.8 Configuring the Mode

This procedure describes how to configure the mode selectable via the **MODE** key on the control panel. Depending on your machine configuration, allows you to select the configuration mode (e.g. "COUNT") is set on or off. If disabled, counting mode will not be displayed.

### Requirements

- The ProNote 130 banknote processing machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*

### Procedure


- [1] Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

On ProNote 130 banknote processing machines, the currency key  and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Navigate to **CONFIG MODE** and press the **MENU** key to accept.

⇒ The "CONFIG MODE" screen is displayed.

- [3] Navigate to the mode (e.g. **COUNT**).

**Important!**

When "COUNT" mode is enabled, the currency "ANY" is used.

- [4] Navigate upwards or downwards to set "ON" or "OFF" and press the **MENU** key to accept.

⇒ The mode is set on or off.

Result

- ⇒ The mode has been enabled or disabled accordingly. If enabled, the mode will be displayed when you select the **MODE** key on the control panel.

**Important!**

If the mode is set to "OFF", it will not be displayed when you select the **MODE** key on the control panel.

## 7.9 Changing Language of User Interface

This procedure describes how to change the language of the user interface.

Requirements

- The machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*
- The language is available; other languages on request

Procedure


- [1] Press the **MENU** key on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

On ProNote 130 banknote processing machines, the currency key  and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

**[2]** Navigate to **LANGUAGE** and press the **MENU** dial.

⇒ The "LANGUAGE" screen is displayed (e.g. "English", "Deutsch").

**[3]** Navigate to the desired language (e.g. "English") and press the **MENU** key.

⇒ The language is changed accordingly. Return is made to the "User Menu" screen.

⇒ The language is changed.

Result

## 7.10 Setting Auto Counting

This procedure describes how to set auto counting or manual mode. If enabled, banknote counting will automatically begin when banknotes are placed onto the singler.

Requirements

- The machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*

Procedure


**[1]** Press the **MENU** key on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

On ProNote 130 banknote processing machines, the currency key  and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Navigate to **AUTO MANUAL SET** and press the **MENU** key to accept.

⇒ The "AUTO MANUAL SET" screen is displayed.

- [3] Navigate to the desired item:

- **AUTO**  
Automatic banknote feeding.
- **MANUAL**  
Manual banknote feeding (e.g. by pressing **Start/Clear**).

- [4] Press **MENU** to accept.

⇒ Automatic or manual counting mode are changed accordingly. Return is made to the "User Menu" screen.

## 7.11 Setting Button Delay

This procedure describes how to set the button delay time. For normal users, this option is set to off.

### Requirements

- The machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*

### Procedure


- [1] Press the **MENU** key on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

On ProNote 130 banknote processing machines, the currency key  and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

- [2]** Navigate to **MENU BUTTON DELAY** and press the **MENU** key to accept.

⇒ The "MENU BUTTON DELAY" screen is displayed.

- [3]** Navigate to the desired item:

- **ON**  
Menu button delay enabled.
- **OFF**  
Menu button delay disabled.

- [4]** Press the **MENU** key to accept.

⇒ A confirmation message displays that the selection was saved.

## 7.12 Setting ADD Function

This procedure describes how to enable the ADD function to accumulate counting results until cleared again. When ADD is enabled, the total symbol is displayed on the screen, indicating the total amount.

### Requirements

- The machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*

### Procedure

- [1]** Press the **MENU** key on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.





### Important!

On ProNote 130 banknote processing machines, the currency key and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

[2] Navigate to **ADD FUNCTION** and press the **MENU** key to accept.

⇒ The "ADD FUNCTION" screen is displayed.

[3] Navigate to the desired item:

- **ON**

ADD function is enabled. Counting results will be accumulated until cleared again.

- **OFF**

ADD function disabled. Counting results will not be accumulated.

[4] Press the **MENU** key to accept.

⇒ A confirmation message displays that the selection was saved.

Result

⇒ The ADD function is switched on or off.

## 7.13 Restoring User Parameters to Default Values

Engineering use only. Used for refreshing the software when performing software updates. A warning message informs you before you continue.

Requirements

- The machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*

Procedure

[1] Press the **MENU** key on the control panel.


⇒ The "User Menu" is displayed.



### Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

On ProNote 130 banknote processing machines, the currency key  and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Navigate to **USER PARA DEF** and press the **MENU** key to accept.

⇒ A warning is displayed.

**Important!**

Take precaution when using this function and always contact service first. To cancel, press the **Start/Clear** key.

- [3] If you are sure you want to continue, press **MENU**.

⇒ If executed, the user parameters are used.

## 7.14 Calibrating Screen

This procedure describes how to calibrate the screen.

### Requirements

- The machine is switched on.  
→ *Section 6.1 "Switching the Machine On and Off", p. 33*

### Procedure


- [1] Press the **MENU** key on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

On ProNote 130 banknote processing machines, the currency key  and the **DETAIL** key are used for navigating up and down in the user menu.

The touchscreen provides similar functionality as many keys of the control panel.

- [2]      Navigate to **TOUCH CALIBRATION** and press the **MENU** key to accept.

**Important!**

The entire calibrating process should be completed within ten seconds.

⇒ You are requested to touch five cursors on various locations of the touchscreen for 10 seconds each. A message displays whether the calibration was successful or whether it failed.

Afterwards, return is made to the "User Menu" screen.



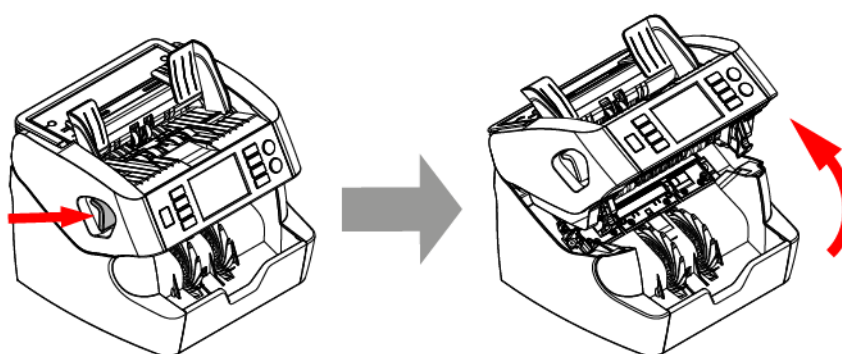
## 8 Maintaining Machine

This section describes procedures for maintaining ProNote 130.

### 8.1 Opening and Closing the Transport Section

This procedure describes how to open the transport section for performing various work (e.g. clearing jams and cleaning the ProNote 130 banknote processing machine).

#### Opening



- [1]** Pull the lever towards you on the left side of the ProNote 130 banknote processing machine and pull back the cover until it stops.

⇒ The transport section is accessible.

- [2]** If required, perform the required action.  
→ *Section 8.2 “Cleaning the Banknote Processing Machine”, p. 61*  
→ *Chapter 9 “Clearing the Jam in the Transport Section”, p. 71*

#### Closing

- [3]** When done, push the cover down again until it snaps in place again.

**Result** ⇒ The transport section is opened or closed accordingly.

### 8.2 Cleaning the Banknote Processing Machine

This section describes how to clean the ProNote 130 banknote processing machine. You can prolong the life of the machine by keeping it clean.

You can clean the singler and stacker with the enclosed dry brush.

### 8.2.1 Cleaning Aids

The following tools are used for cleaning purposes:

- Commercially available cleaning solutions
- Isopropyl alcohol for heavier soiling
- Lint-free, non-abrasive cloth or lint-free, non-abrasive cloth dampened with water
- Soft bristled brush (e.g. brush placed in brush holder on back-side of the counter)

### 8.2.2 Cleaning the Cover

This procedure describes how to clean the cover and exterior of the ProNote 130 banknote processing machine.

#### Requirements

- Cleaning aids (e.g. mild kitchen detergent as well as sponge and soft, lint-free cloth)

## Procedure



### **DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

1. Before starting any work, switch off the machine/device.
2. Disconnect the machine from the power supply.
3. Secure the machine/device against being switched back on.



### **DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

Only field engineers are permitted to remove panel sections screwed in place on the machine/device.



### **WARNING**

Do not perform any maintenance and service work.

There is a danger of serious injury.

Have maintenance and service work carried out by specially trained maintenance personnel and field engineers.



### **CAUTION**

Danger from raised dust

Inhaling dust can be hazardous to your health.

Dust in the air can also damage bearings and electronic parts.

Use a vacuum cleaner with a micro-filter.

Never use compressed air for cleaning purposes.



### **NOTICE**

Incorrect cleaning materials

Risk of damage to the machine/device

Do not use cleaning material with a corrosive or scouring effect.



### **NOTICE**

Contaminated cleaning cloth

Risk of damage to the measurement window

Always use a new cleaning cloth. Grit contamination from previous cleaning may damage the measurement window.

Use each cleaning cloth once only.

- [1]** Switch off the ProNote 130 banknote processing machine.

→ Section 6.1 “Switching the Machine On and Off”, p. 33



### **DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

Always unplug the machine by pulling on the plug and never by pulling on the cable.

**[2]** Unplug the mains plug from the power socket.

**[3]** Check the ProNote 130 banknote processing machine for damage.



### **Important!**

In the event of safety-relevant damage (e.g. damaged network cables or plugs and broken, sharp-edged parts), contact Service.

**[4]** Prepare a 5:1 mixture of water and mild kitchen detergent consisting of 5 parts water and 1 part detergent.



### **Important!**

The detergent must not contain abrasive powder or strong acid or alkaline chemicals.

**[5]** Soak a sponge in the solution and then squeeze all excess liquid from the sponge.



### **Important!**

When cleaning the machine, ensure that no liquid gets inside the machine.

**[6]** Wipe the cover with the sponge using a circular motion, taking care not to let any excess liquid drip inside the machine.

**[7]** Wipe the surface to remove any excess detergent.

**[8]** Rinse the sponge with clean, running water.

**[9]** Wipe the cover with the clean sponge to remove any remaining detergent.

**[10]** Wipe the surface again with a dry, soft, lint-free cloth.

**[11]** Wait for the surface to dry completely and remove any loose fibers.





Result                                      ⇒      The cover of the ProNote 130 banknote processing machine is cleaned.

### 8.2.3      Cleaning the Transport Section

This procedure describes how to clean the transport section of the ProNote 130 banknote processing machine.

- Requirements
- Cleaning aids (e.g. soft bristled brush and non-abrasive cleaning cloth to avoid damage)  
→ *Section 8.2.1 "Cleaning Aids", p. 62*

## Procedure

**DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

1. Before starting any work, switch off the machine/device.
2. Disconnect the machine from the power supply.
3. Secure the machine/device against being switched back on.

**DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

Only field engineers are permitted to remove panel sections screwed in place on the machine/device.

**WARNING**

Do not perform any maintenance and service work.

There is a danger of serious injury.

Have maintenance and service work carried out by specially trained maintenance personnel and field engineers.

**CAUTION**

Danger from raised dust

Inhaling dust can be hazardous to your health.

Dust in the air can also damage bearings and electronic parts.

Use a vacuum cleaner with a micro-filter.

Never use compressed air for cleaning purposes.

**NOTICE**

Incorrect cleaning materials

Risk of damage to the machine/device

Do not use cleaning material with a corrosive or scouring effect.

**NOTICE**

Contaminated cleaning cloth

Risk of damage to the measurement window

Always use a new cleaning cloth. Grit contamination from previous cleaning may damage the measurement window.

Use each cleaning cloth once only.

**[1]** Switch off the ProNote 130 banknote processing machine.

→ Section 6.1 “Switching the Machine On and Off”, p. 33



### **DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

Always unplug the machine by pulling on the plug and never by pulling on the cable.

[2] Unplug the mains plug from the power socket.

[3] Check the ProNote 130 banknote processing machine for damage.



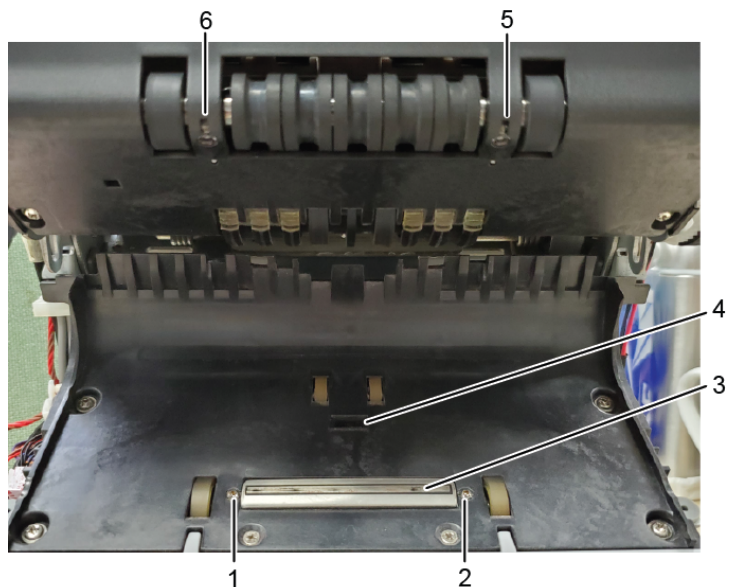
### **Important!**

In the event of safety-relevant damage, e.g. damaged network cables or plugs and broken, sharp-edged parts, contact Service.

[4] Open the transport section.

→ Section 8.1 “Opening and Closing the Transport Section”, p. 61

⇒ The transport section is accessible.



**Figure 8: Transport Section**

- 1 Left#1 count sensor receiving diode
- 2 Right#1 count sensor receiving diode
- 3 Magnetism sensor
- 4 UV sensor
- 5 Right#1 count sensor emitting diode
- 6 Left#1 count sensor emitting diode

- [5]** Gently wipe or dust the transport section using a small, soft brush or lint-free, non-abrasive cloth.



**Important!**

If stains remain, moisten a soft, lint-free cloth with water or a 50/50 mixture of isopropyl alcohol and water that does not contain impurities. Wring out as much of the liquid as you can.

Do not let any liquid drop into the device.

- [6]** Wipe the note path and the sensor surfaces again, ensuring that no liquid gets inside the machine.



**Important!**

Avoid spraying cleaner directly on the machine and be sure to dry the note path before closing it.

- [7]** Due to soiling, check the rollers for soiling and clean.

Result

- ⇒ The transport section of the ProNote 130 banknote processing machine is cleaned.

## 8.3 Adjusting the Feeding Gap

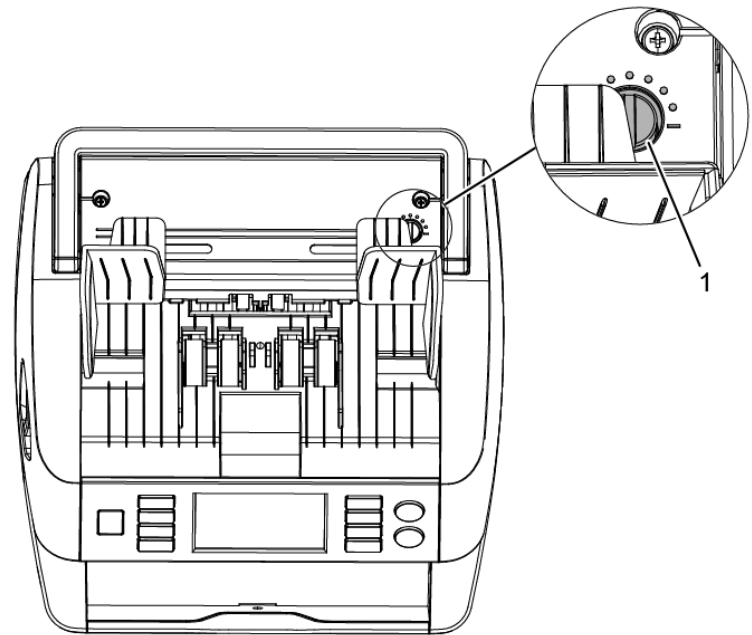
8

This procedure describes how to adjust the feed gap. The feeding gap adjusting screw on the top cover is factory set. However, you may need to adjust the feeding gap if problems occur during counting or sorting.

Potential Problems

- The feeding gap may need to be adjusted if the following problems occur:
  - Frequent jams or banknotes pass the feeder with difficulty.  
In this case, you must widen the feeding gap by turning the adjusting screw in a counter-clockwise direction.
  - Frequent "double notes" or "chained notes" error message.  
In this case, you must narrow the feeding gap by turning the adjusting screw in a clockwise direction.

## Procedure



**Figure 9: Adjustment Screw**

1 Feed gap adjustment screw

**[1]** Adjust the feed by turning the gap adjustment screw. You can widen or shorten the gap as needed:

- Widening the gap  
→ **[2a-1]**
- Shortening the gap  
→ **[2b-1]**



### Important!

The adjustment screw is very sensitive. Only make minor adjustment.

**[2]** Perform one of the following options.

#### **[2a] Widening the Gap**

Necessary, for example, in case of frequent jams or banknotes which pass the feeder with difficulty.

**[2a-1]** Turn the gap adjustment screw counter-clockwise.

#### **[2b] Shortening the Gap**

Necessary, for example, in case of the errors such as "Chain Note" or "Double Note".

**[2b-1]** Turn the gap adjustment screw clockwise.

**[3]** To test, place a banknote between the wheels in the singler to initiate banknote feeding and keep hold of it.  
If you feel the pull on the banknote when wheels are turning, the machine is workable.

Result ⇒ The feed gap is adjusted as required.

## 8.4 Changing the Fuse

This procedure describes how to change the fuse.

Requirements

- New fuse corresponding to old one

Procedure



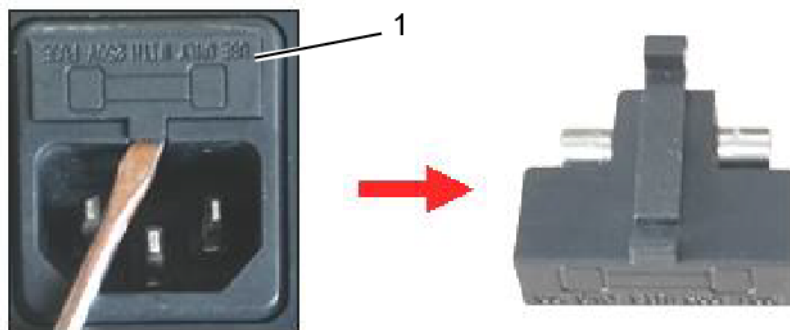
### WARNING

Risk of Electric Shock

Electric shock could occur when performing maintenance work.

Always disconnect the main power cable before removing the fuse holder.

**[1]** Disconnect the machine from the power.



**[2]** Take out the fuse holder (1).

**[3]** Replace the fuse.

**[4]** Plug the fuse holder back in.

⇒ The fuse is changed.

## 9 Clearing the Jam in the Transport Section

This procedure describes how to clear a jam in the transport section.

### Requirements

- Jam in the transport section.

### Procedure



#### **WARNING**

Do not perform any maintenance and service work.

There is a danger of serious injury.

Have maintenance and service work carried out by specially trained maintenance personnel and field engineers.

- [1]** Open the upper transport section.  
 → *Section 8.1 "Opening and Closing the Transport Section", p. 61*  
 ⇒ The upper transport section is accessible.



#### **Important!**

If an error message is displayed during processing, follow the instructions for solving the problem. If you cannot solve the problem yourself, contact service.

→ *Chapter A "Error Messages", p. 73*

- [2]** Remove the jammed note.
- [3]** After inspection of any further jammed notes, close the cover by pushing it back to the closed position.

### Result

- ⇒ The banknote jam is cleared in the transport section.





## A Error Messages

A

If an error occurs when operating the ProNote 130 banknote processing machine, an error message is displayed. You are instructed on how to solve the problem.

If you cannot solve the problem yourself, contact service.



### Important!

Certain components are described in this documentation may only be replaced or repaired by service technicians or trained persons. This assures the safety of the product. Improper handling can cause material damage to the device and disturbances during operation.



### Important!

Assure that only trained persons perform work on the device. The manufacturer does not assume liability for any damage caused by disregarding this advice, e.g. when repairing or exchanging components by untrained persons.

### A.1 Errors During Counting

If the following error messages are displayed during counting, stop the ProNote 130 banknote processing machine before handling them.



### Important!

If you cannot solve the problem yourself (e.g. adjustment or calibration procedure), contact service.

#### A.1.1 Stacker is Full (Error:10)

Error Code	10
Error message	The stacker is full!
Error description	The stacker is full on the ProNote 130 banknote processing machine.
<b>Remove all banknotes from stacker</b>	<b>[1]</b> Remove all banknotes from the stacker of the ProNote 130 banknote processing machine.

## A

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

**Troubleshooting  
unsuccessful**

Call help desk.

### A.1.2 Counterfeit or Suspicious Banknote (Error:36 FF)

Error Code 36

Error message F-F

Error description A counterfeit or suspicious banknote was detected while processing banknotes on the ProNote 130 banknote processing machine.

**Remove counterfeit  
or suspicious bank-  
note from the  
stacker**

[1] Remove the suspicious banknote from the stacker and press the **Start/Clear** key.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

**Troubleshooting  
unsuccessful**

Call help desk.

### A.1.3 Counterfeit or Suspicious Banknote (Error:37 F-C)

Error Code 37



Error message F-C

Error description A counterfeit or suspicious note was detected while processing banknotes on the ProNote 130 banknote processing machine.

**Remove counterfeit or suspicious banknote from stacker**

- [1] Remove the counterfeit or suspicious banknote from the stacker and press the **Start/Clear** key.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

**Troubleshooting unsuccessful** Call help desk.

#### A.1.4 Slant Notes (Error:44)

Error Code 44

Error message Slant notes!

Error description A slant (i.e. skew/tilted banknote) error occurred when operating the ProNote 130 banknote processing machine. The banknotes are not being fed straight through the ProNote 130 banknote processing machine.

**Center banknotes on singler**

- [1] Ensure that the banknotes are placed neatly and are inserted centered on the singler. Remove the slant note from the stacker and press **Start/Clear** to continue counting.  
→ Section 6.2.1 “Suggestions for Good Banknote Feeding”, p. 34

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ [2]

### Center banknotes using guides when counting banknotes

- [2]** Use the singler guides to center the banknotes when counting a large stack of banknotes.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

**End**

Problem solved.

**Troubleshooting  
unsuccessful**

Call help desk.

### A.1.5 Double or Chained Error (Error:46/48)

Error Code 46, 48

Error message Double notes!  
Chained notes!

Error description A double or chained error occurred when operating the ProNote 130 banknote processing machine. Some banknotes are attached to each other or are overlapping.

**Place banknotes  
onto singler and  
recount**

- [1]** Place the banknotes from the stacker back onto the singler and recount.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ [2]

### Turn adjusting screw clockwise

- [2]** If the error frequently occurs, turn the adjusting screw clockwise to tighten the gap.  
→ *Section 8.3 “Adjusting the Feeding Gap”, p. 68*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

**End**

Problem solved.

**Troubleshooting unsuccessful**

Call help desk.

## A.1.6 Incomplete Notes (Error:52)

Error Code 52

Error message Incomplete notes!

Error description Incomplete notes were detected while processing banknotes on the ProNote 130 banknote processing machine.

**Remove all notes from stacker and pass again**

- [1]** Remove all notes from the stacker and pass again.

## A

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

### Troubleshooting unsuccessful

Call help desk.

### A.1.7 Width/Length Error (Error:53)

Error Code 53

Error message Width error!  
Length error!

Error description A width or length error occurred while processing banknotes on the ProNote 130 banknote processing machine.

### Remove suspicious banknote

[1] Remove the suspicious banknote and press the **Start/Clear** key to continue processing.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

### Troubleshooting unsuccessful

Call help desk.

### A.1.8 Cannot Judge Denomination (Error:57)

Error Code 57

Error message

Cannot Judge Denomination

Error description

The denomination could not be judged while processing banknotes on the ProNote 130 banknote processing machine.

**Remove last bank-note**

**[1]** Remove the last banknote and press the **Start/Clear** key to continue counting.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

**End**

**Troubleshooting unsuccessful**

Call help desk.

### A.1.9 Denomination Different (Error:62)

Error Code

62

Error message

Denomination different!

Error description

The denomination is not the same.

**Remove last bank-note**

**[1]** Remove the last banknote and press the **Start/Clear** key to continue counting.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

**End**

**Troubleshooting unsuccessful**

Call help desk.

### A.1.10 Abnormal

Error message Abnormal

Error description An abnormal condition occurred.

**Restart machine** [1] Turn off the machine and restart it.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

**End**

**Troubleshooting unsuccessful** Call help desk.

## A.2 Self-Test Error Messages

ProNote 130 automatically performs a self-test after power on. If an error message is shown on the display window, usually it is because the sensor is blocked by banknote or dust. In this case, use a brush or a piece of soft cloth to clean the dust on the sensor or remove the banknote, and then restart the machine.

### A.2.1 Feed Sensor Abnormal (Error:14)

Error Code 14

Error message Feed sensor abnormal!

Error description The feed sensor was detected as being abnormal.

**Remove banknote from singler and/or remove dust from feeding sensor** [1] Remove the banknote from the singler and/or remove dust from the feeding sensor.



Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

**Troubleshooting  
unsuccessful**

Call help desk.

### A.2.2 Receive Sensor Abnormal (Error:15)

Error Code 15

Error message Receive sensor abnormal!

Error description The receive sensor is abnormal.

**Remove banknote  
from stacker and/or  
dust from receiving  
sensor**

[1] Remove the banknote from the stacker and/or remove dust from the receiving sensor.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

**Troubleshooting  
unsuccessful**

Call help desk.

### A.2.3 Left#1 Count Sensor (Error:18)

Error Code 18

A

Error message

Left#1 count sensor

Error description

An error was detected on the left#1 count sensor.

**Remove banknote  
and/or remove dust  
from count IR sen-  
sor**

- [1] Remove the banknote from the machine and/or remove dust from the count IR sensor.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

**Troubleshooting  
unsuccessful**

Call help desk.

#### A.2.4 Right#1 Count Sensor (Error:19)

Error Code

19

Error message

Right#1 count sensor

Error description

An error was detected on the right#1 count sensor.

**Remove banknote  
and/or remove dust  
from count IR sen-  
sor**

- [1] Remove the banknote from the machine and/or remove dust from the count IR sensor.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

## Troubleshooting unsuccessful

Call help desk.

### A.2.5 Rotate Speed Sensor (Error:22)

Error Code 22

Error message Rotate speed sensor

Error description An error was detected on the rotate speed sensor.

#### Check if error occurs again

[1] Check if the error occurs again.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

## Troubleshooting unsuccessful

Call help desk.

### A.2.6 Count Sensor Dust Warning (Error:31)

Error Code 31

Error message Count sensor dust warning

Error description A count sensor dust warning occurred while processing banknotes on the ProNote 130 banknote processing machine.

#### Remove dust from count IR sensor

[1] Remove dust from the count IR sensor.

## A

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

### Troubleshooting unsuccessful

Call help desk.

## A.2.7 UV Sensor

Error message

UV sensor

Error description

An UV sensor error was detected.

### Remove dust from UV sensor

[1] Remove dust from the UV sensor.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

### Troubleshooting unsuccessful

Call help desk.

## A.3 Sensitivity Parameters Setting Error

You may encounter the following problems during counting/sorting:

- Machine does not recognize the notes properly.
- Machine frequently recognizes good notes as unfit notes.

If either of these occurs, contact your technician/dealer to adjust the machine's sensitivity parameters.

→ *Service Manual*

**Important!**

In case of any technical problem that cannot be solved by the above, contact your supplier.

**A**



A



## B Technical Support

---

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## Hong Kong



## Glossary

---

### C

CD	compact disk digital storage medium
----	----------------------------------------

### D

DVD	digital versatile disk digital storage medium
-----	--------------------------------------------------

### E

EMC	electromagnetic compatibility capability of electronic components working proper in an electronic environment
EN	European standard
EU	European Union (since December 1, 2009)

### G

GUI	graphical user interface
-----	--------------------------

### H

Hz	hertz (physical unit of frequency)
----	------------------------------------

### V

V	volt (physical unit of electrical potential)
---	----------------------------------------------





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**Material:** 535041001

USER MANUAL

ProNote 130

BENUTZERHANDBUCH

English 01/2021

**Batch:** NEW

Origin: Germany



**Qty.:** 1 PC.

