VASCO
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DIGIPASS® 875 Chip TAN BT

User Manual

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1 Introduction

Welcome to the DIGIPASS 875 User Manual. This document describes how you can enhance protection for online and mobile banking transactions with DIGIPASS 875.

DIGIPASS 875 supports all German banking TAN procedure standards for electronic TAN generation. It is used with your registered EC-Karte to generate the TANs for online or mobile banking transactions. DIGIPASS 875 can communicate via a secure Bluetooth connection, or you can use the device via a USB connection.

This manual provides information about the DIGIPASS 875 device features. For more information about the TAN procedure in place, contact your bank.

2 Introducing DIGIPASS 875

This chapter contains instructions to get started with DIGIPASS 875. It lists system requirements and describes how to use DIGIPASS 875 via a USB or Bluetooth connection.

This chapter covers the following topics:

- DIGIPASS 875 Versions
- Getting Started with DIGIPASS 875
- Replacing the Battery
- Using a Bluetooth Connection

2.1 DIGIPASS 875 Versions

DIGIPASS 875 is available in two different versions, which come with different key labels, but which are identical otherwise:

- **DIGIPASS 875 Final Version** has **TAN** and **€** keys.
- **DIGIPASS 875 Field Test Version** has **LOGIN** and **SIGN** keys.

Regarding functionality, the **TAN** key corresponds to the **LOGIN** key, and the **€** key is the final version's counterpart of the **SIGN** key. There is no difference in functionality.

Figure 1: DIGIPASS 875 - Final Version

Figure 2: DIGIPASS 875 - Field Test Version

NOTE
Figure 1 and Figure 2 may not reflect the final appearance of the device and are included as a reference for the function- key mapping.

On the back lid of the device you can find the following:

- a label with the serial number of the device
- a label with a with a QR code to the VASCO Web site, where you can download the electronic version of this manual

Figure 3: DIGIPASS 875 – Reverse Side

2.2 Getting Started with DIGIPASS 875

2.2.1 Powering on DIGIPASS 875

When not connected via USB, DIGIPASS 875 is started upon insertion of a smart card and first checks for a Bluetooth host connection. If no host is available, DIGIPASS 875 will deactivate the Bluetooth connection and proceed to the main menu:

- DIGIPASS 875 Field Test Version: Press **LOGIN**, **SIGN** or **MENU**.
- DIGIPASS 875 Final Version: Press **TAN**, **€** or **MENU**.

If you press **C** (cancel) while DIGIPASS 875 is trying to establish a Bluetooth connection, the connecting process will be stopped and DIGIPASS 875 will again proceed to the main menu.

When up and running, DIGIPASS 875 automatically connects to the host it was last connected to (if available). If you want to connect to a different host, select the host from the **Bluetooth > Connections > New host** submenu.

2.2.2 Powering off DIGIPASS 875

DIGIPASS 875 has a generic system timeout. When waiting for user interaction or displaying a response, DIGIPASS 875 in Bluetooth mode will always return to the main menu after the timeout period has elapsed.

After 60 seconds of inactivity or upon removing the smart card, DIGIPASS 875 will automatically power off.

2.3 Replacing the Battery

When connected via Bluetooth, DIGIPASS 875 is using two standard CR 2032 batteries. A warning message/icon is displayed when battery power is low.

Figure 4: DIGIPASS 875 – Replaceable Batteries

WARNING
If you replace the batteries, you need to replace both batteries at the same time. Do not use old batteries together with new batteries, or alkaline batteries together with lithium S batteries. Do not open or puncture the batteries, install them backwards, or expose them to fire, high temperatures, or water. Keep batteries out of reach of children.

Before replacing the batteries, make sure there is no smart card inserted in the reader.

➢ To replace the batteries

1. On the back of the device, remove the screw.
2. Remove the lid.
3. Replace the batteries.
4. Fit the lid and tighten the screw.

2.4 Using a USB Connection

To work with DIGIPASS 875 via USB, you need a computer with USB 2.0 port. The cable has an A-type Micro USB connector.

DIGIPASS 875 supports the following operating systems:

- Microsoft Windows Vista
- Microsoft Windows 7
- Microsoft Windows 8
- OS X 10.8 and higher

DIGIPASS 875 uses the standard CCID driver of the operating system.

After connecting DIGIPASS 875 to your computer, the message “USB and Vasco-HDD1.4” is displayed on DIGIPASS 875. After insertion of a smart card, a corresponding icon is displayed on the device.

With a USB connection, power is supplied by the computer, and the batteries are not used.

2.5 Using a Bluetooth Connection

2.5.1 System Requirements

DIGIPASS 875 supports the Bluetooth 4.0 LE standard.

DIGIPASS 875 supports the following operating systems:

- iOS 7 and higher
- Android 4.3 and higher
- OS X 10.8
- Microsoft Windows 8.1

DIGIPASS 875 uses the standard Bluetooth stack of your mobile device or tablet; no additional driver or application is required.

2.5.2 Pairing

During the pairing process, DIGIPASS 875 and the mobile device/tablet establish a relationship by creating a shared secret/passkey entry. A 6-digit numeric code is displayed on the mobile device, which you need to enter on DIGIPASS 875.

Pairing is always requested by the mobile application, either before or during a transaction. The pairing process is required once for each mobile device, prior to connecting to DIGIPASS 875 for the first time.

For more information about how to create a new host, or how to select or delete a host, refer to Section 3.4.2 Bluetooth Menu.

3 Working with DIGIPASS 875

This chapter contains instructions to generate TANs for online banking and describes how to navigate through the various DIGIPASS 875 (sub)menus.

This chapter covers the following topics:

- Overview of the Main Menu
- Generating TANs (TAN/LOGIN)
- Viewing Previous Transactions (€/Sign)
- Menu

3.1 Overview of the Main Menu

From the main menu (no USB or Bluetooth connection), you can start working with DIGIPASS 875 by pressing one of the following keys on the keypad:

- **LOGIN** or **TAN** for TAN generation as described in Section 3.2 Generating TANs (TAN/LOGIN)
- **SIGN** or **€** to view balance information and previous transactions as described in Section 3.3 Viewing Previous Transactions (€/Sign)
- **MENU** to access the **Info** menu as described in Section 3.4 Menu

While in the main menu, DIGIPASS 875 will ignore other keys.

3.2 Generating TANs (TAN/LOGIN)

3.2.1 Generating a TAN

➢ To generate a TAN

1. Insert your smart card.
2. Depending on the DIGIPASS 875 version, press the **LOGIN** or the **TAN** key.
   For more information about available DIGIPASS 875 versions, refer to Section 2.1 DIGIPASS 875 Versions.
3. Enter the startup code, which is provided by your online banking application.
4. Press the **OK** key to confirm the code.

> NOTE
> To cancel the transaction or to make corrections to transaction data you entered, press **C**.

5. Follow the instructions of the online banking application or on the display of DIGIPASS 875 to proceed.
   When the last data entry is confirmed, the TAN is generated and displayed on DIGIPASS 875.
6. Enter the TAN into the online banking application to finalize the transaction.

3.2.2 Generating a TAN with ATC/Synchronizing DIGIPASS 875

The ATC indicates the number of previously generated TANs. This value may be used to synchronize DIGIPASS 875 with your online banking application.

Follow the steps in this section if your online banking application prompts you for an ATC.

➢ To generate a TAN with an ATC

1. Insert your smart card.
2. Depending on the DIGIPASS 875 version, hold the **LOGIN** or the **TAN** key until the ATC activation message is displayed.
   For more information about available DIGIPASS 875 versions, refer to Section 2.1 DIGIPASS 875 Versions.
3. Generate the TAN as described in Section 3.2.1 Generating a TAN.
   The TAN and the corresponding ATC are displayed on DIGIPASS 875.
4. Enter the TAN and ATC into the online banking application to finalize the transaction and synchronize DIGIPASS 875 with your online banking application.

3.3 Viewing Previous Transactions (€/Sign)

With DIGIPASS 875, you can easily view balance information and your previous transactions.

➢ To view balance and transaction information

1. Insert your smart card.
2. Depending on the DIGIPASS 875 version, press the **SIGN** or the **€** key.
   For more information about available DIGIPASS 875 versions, refer to Section 2.1 DIGIPASS 875 Versions.

   Balance information and your previous transactions are displayed.
3. Press **MENU** to go through your previous transactions.

3.4 Menu

You can access the **Info** submenu from the main menu by pressing the **MENU** key on the keypad. You can go through the menu items by pressing the **MENU** or **OK** key.

The following menu items are available:

- **PIN**
- **Bluetooth**
- **Reader Info**

3.4.1 PIN Menu

You can access the **PIN** submenu by holding the **MENU** key on the keypad for several seconds. You can go through the menu items by pressing the **MENU** or **OK** key.

The following menu items are available:

- **Activate PIN**
- **Deactivate PIN**
- **Unblock PIN**

3.4.2 Bluetooth Menu

You can access the **Bluetooth** submenu by pressing the **MENU** key on the keypad. You can go through the menu items by pressing the **MENU** or **OK** key.

The following menu items are available:

- **Enable Bluetooth**
- **Connections**

3.4.2.1 Enable Bluetooth

You can access the **Enable Bluetooth** submenu from the **Bluetooth** menu by pressing **1** on the keypad. You can enable or disable the DIGIPASS 875 Bluetooth feature.

With Bluetooth disabled, pairing DIGIPASS 875 will not be possible.

3.4.2.2 Connections

You can access the **Connections** submenu from the **Bluetooth** menu by pressing **2** on the keypad.

The following menu items are available:

- **New host**

- **Delete all**

NOTE
Delete all will be available only if at least one host is registered.

New host

You can access the **New host** submenu from the **Connections** menu by pressing **1** on the keypad. You can select an existing host or create a new host.

Do either of the following:

- From the host list, select the host and press the corresponding number on the keypad. DIGIPASS 875 immediately establishes a connection to the selected host.
- Press **0** if you want to create a new host. DIGIPASS 875 will scan for a new host and initiate the pairing process.

Delete all

You can access the **Delete all** submenu from the **Connections** menu by pressing **2** on the keypad. To delete all hosts already paired press **0**.

3.4.3 Reader Info

You can access the **Reader Info** submenu by pressing the **MENU** key on the keypad. You can go through the menu items by pressing the **MENU** or **OK** key.

The following menu items are available:

- **Reader version**
- **Firmware version**
- **Reader serial number**

4 Important Handling Information

- Operating environment

  Operating your DIGIPASS 875 outside the following ranges may affect performance:

  - Operating temperature: 50° to 95° F (10° to 35° C)
  - Storage temperature: -4° to 116° F (-20° to 47° C)
  - Relative humidity: 5% to 95% (non-condensing)
  - Maximum operating altitude: 10,000 feet (3048 meters)

- Using connectors and ports

  Never force a connector into a port. When connecting a device, make sure the port is free of debris, that the connector matches the port, and that you have positioned the connector correctly in relation to the port.

- Maintenance

  DIGIPASS 875 has no user-serviceable parts. Do not attempt to open your DIGIPASS 875. If you open DIGIPASS 875, you risk damaging your equipment. Such damage is not covered by the limited warranty on your DIGIPASS 875.

- Cleaning your DIGIPASS 875

  Follow these guidelines when cleaning the cover of your DIGIPASS 875:

  - Power off DIGIPASS 875, remove the smart card (if inserted), and disconnect all cables.
  - Use a damp, soft, lint-free cloth to clean the exterior of your DIGIPASS 875.
  - Avoid getting moisture in any openings. Do not spray liquid directly on your DIGIPASS 875.
  - Do not use aerosol sprays, solvents, or abrasives.

- Cleaning the DIGIPASS 875 display
  - Use the cloth that came with your DIGIPASS 875 to clean the display.
  - Do not spray liquid directly on the screen or into the smart card slot.

5 DIGIPASS 875 Specifications

Table 1: DIGIPASS 875 Device Specification

VASCO Class 4 reader	Connectable keypad reader with display.
User interface	102 * 46 full dot matrix display Up to 6 lines, 120 characters
Smart card interface	ISO7816, T=0, T=1; Frequency up to 4 Mhz Supports ISO 7816 Class A 10 000 smart card insertions Embossed smart card supported Max current 30 mA in peak
Size	102 * 61,7 * 13 mm
Weight	<80 g.
Keypad	Tactile keypad with silicone rubber key printed with an epoxy layer. Resistant to over 100,000 rubbings. 10 numeric keys and 6 function keys
Bluetooth	Standard 4.0 LE (Low Energy) Pairing methods: reverse Multiple Host handling: Up to 8 Hosts with automatic selection Power distance: -18dBm GATT profile and Service implementation Standard Service: DK TAN
Replaceable Battery	2 replaceable batteries CR 2032 /expected lifetime 4 years[1]
Power supply in connected mode	Only in USB connected mode, in BLE connected mode power from batteries
Cable	1m long USB detachable cable with type A connector
Operating systems	Bluetooth 4.0 LE: iOS 7+, Android 4.3+, Windows Phone 8, BlackBerry 10, OS X 10.8, Microsoft Windows 8 USB: Microsoft Windows Vista, Microsoft Windows 7, Microsoft Windows 8, Windows server, Linux, OS X 10.6 and higher
Standards	German sm@rt TAN and Girocard HDD.1.4 EMV2000 LEVEL 1 USB 2.0 Full speed PC/SC 2.01 CCID

Table 2: DIGIPASS 875 Compliance Specification

Storage temperature	-10 °C to 50 °C; 90 %RH non-condensing IEC 60068-2-78 (Damp heat) IEC 60068-2-1 (Cold)

[1] Depending on the transaction and the smart card in use.

Operating temperature	0 °C to 45 °C; 85 %RH non-condensing IEC 60068-2-78 (Damp heat) IEC 60068-2-1 (Cold)
Vibration	10 to 75 Hz; 10 m/s2 IEC 60068-2-6
Drop	1 meter IEC 60068-2-32
Emission	EN 55022
Immunity	4 kV contact discharges 8 kV air discharges 3 V/m from 80 to 1000 MHz EN 61000-4-2 and EN 61000-4-3
Compliance to European directives (CE marking)	2004/108/EC (EMC directives) - 2011/65/EU (RoHS directive) – 2012/19/EU (WEEE directive)