# keycard Return Machine KC 370i AUT2

Manual and operational description





Version December 2004

#### SKIDATA AG

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#### **Declaration of Conformity**

The keycard-Return Machine KC 370i AUT2 has been developed, designed and manufactured in accordance with the following EU directive:

R&TTE (1999/5/EC)

# **CE** 0408

#### FCC 15.19:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC 15.21:

**IMPORTANT**: Any changes to or modifications of keycard Return Machine unless expressly approved by SKIDATA<sup>™</sup>, may void the user's authority to operate this device.

1

#### **Keycard Return Machine**

#### **Document Management – Version Table**

Tab. 1: Document Version Table for Installation & Maintenance Instructions

Section	Document	Pages	Version	Date
1	Keycard Return Machine	4	1.0	2004-12-07

# 1 keycard Return Machine

48 Pages Copyright 2004 by SKIDATA AG Contents

# 1.1 Contents

1.1	Contents	2
1.2	Description	4
1.3	Operation	5
1.3.1	Returning keycards	5
1.3.2	Returning keycards with remaining	
	credits	6
1.4	Service functions	7
1.4.1	Login	7
1.4.2	Service menu	8
1.4.2.1	Reset	9
1.4.2.2	Download Firmware	9
1.5	Info Terminal	10
1.5.1	Searching the event log	11
1.5.2	Key Number	13
1.6	Dimensions	15
1.7	Front View & Description of Components	16
1.7.1	Keycard Return Machine – dimensions	17
1.7.2	Mounting	18
1.7.2.1	Mounting on wall mounting brackets	18
1.7.3	Mounting on rack stand	22
1.8	Power Connections	24
1.8.1	Connecting control board sd412	25
1.8.2	Strain relief	26
1.8.3	Heater	28
1.9	PC connections	30
1.9.1	Connectors	30
1.9.2	IPC connections (rear)	31
1.10	Replacing the keycard Container	32
1.10.1	Removing the keycard container	32
1.10.2	Inserting the keycard container	34
1.10.3	Inserting the coin cashbox	36
1.10.4	Removing the coin cashbox	37
1.11	Dispenser	38
1.12	Preparing IPC Settings	43
1.12.1	Keyboard rest	43
1.12.2	Swivelling the monitor	44

Contents

1.13	<b>Replacing the Mechanism</b>	46
1.14	Closing the Bolted-open Door	47

## **1.2 Description**

The keycard Return Machine verifies the keycard inserted by the guest and pays out the pre-defined deposit in coins or banknotes, depending on the machine version. Cash can be refilled by means of easy-to-change cashboxes.

The device is controlled through an integrated PC that stores all transactions and device status details. Peripherals such as a mouse, keyboard and swivel-out monitor are provided for easy servicing.

The software offers a multi-lingual graphical user interface for easy, efficient control.

Networking the keycard Return Machines via Ethernet or modem lines allows for remote maintenance and polling of counters and logs (transaction tracing). If a container needs replacing, the machine can automatically send a message to pre-defined devices (e.g., POS stations). The End-of-Day records are relayed to the DataCentral for inclusion in the overall statistical evaluation. Operation

# **1.3 Operation**

#### 1.3.1 Returning keycards

The following screen message indicates that the keycard Return Machine is fully operational and ready:

Fig. 1: Return procedure



A keycard may now be inserted into the ticket slot. Once the card has been verified and accepted, the deposit is paid out into the change dish. Operation

#### **1.3.2 Returning keycards with remaining credits**

When inserted into the front slot of the machine, the keycard is read and verified. Any remaining credits (points, hours, etc.) will be indicated on the screen:

Fig. 2: Remaining credits



The card holder may then decide whether or not to return the card anyway. Pressing the 'Yes' button will initiate the return procedure; pressing the 'No' button will abort the procedure and return the card to the holder.

# **1.4 Service functions**

There are two basic ways of accessing the Service menu:

1.4.1 Login

#### Logging on without keyboard

When performing simple maintenance tasks such as refilling dispensers or hoppers, it is possible to access the unit using a service card instead of entering a password with the keyboard. Insert the service card into the card slot to bring up the Service menu.

#### Logging on using the keyboard and mouse

Press the 'F10' function key on the keyboard. This will bring up the following Login dialogue on the screen:

Fia	3.	Sen	<i>ice</i>	Logon
i iy.	э.	Ser	100	LUYUN

Service				
User: RETH Password: *				
Login	Cancel			
SKIDATA access unlimited				

Enter a user name and password, then press the Tab key to shift the focus to the 'Login' button and press enter (alternatively, just click on the 'Login' button after entering the password).

#### 1.4.2 Service menu

The Service menu shows the current status for the following items:

- keycard: Indicates the number of keycards in the return container Hitting the 'Empty' button will set the current keycard filling level back to zero.
- Dispenser or Hopper: Indicates the number of banknotes or coins, respectively. You may empty the hopper by clicking the 'Empty' button. This will cause all coins to be paid out and the coin filling level to be reset.
- The 'Empty' button is not available if a dispenser is used.
  Info: You may enter a brief descriptive remark here (e.g., name of the current user). When you click the 'Reset' button,
- name of the current user). When you click the 'Reset' button, the message "RESET BY EXTERNAL" will be shown in the Info box.

Fig. 4	Service	menu
--------	---------	------

Service	
–Counter readings –	
keveards: 84	Reset Press for 2 sec.
Hopper 142 Empty	
Info:	
Firmware version: KCRMechanics V01.02.25 16.01.2004	Save
Download firmware Save Cancel	
SKIDATA access unlimited	

Counts may also	be entered v	ia keyboard	or mouse
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#### 1.4.2.1 Reset

Click the 'Reset...' button and hold it for two seconds.

- This will cause the keycard counter to be reset (i.e., cleared).
- The dispenser filling level is set to a value pre-defined in the personality firmware. 'Old' banknotes must then be taken out and replaced with a new stack.
- Also, the hopper level is increased by a value pre-defined in the personality firmware (e.g., by the number of coins in a standard roll). Refill the hopper with the pre-defined number of coins.

Click the 'Save' button (or the control button next to the 'Save' icon) to apply the new settings. This will also close the Service menu, and the device will return to its normal operating mode.

Hitting the 'Cancel' button (this requires use of the keyboard or mouse) you can abort the procedure without applying changed settings.

#### 1.4.2.2 Download Firmware

This function, which is only accessible via the keyboard or mouse, lets you download a firmware update for the Return Machine. The current firmware version is indicated in the service window.

Selecting the 'Download Firmware' button will open a file selection dialogue. Select the file you wish to install. This will cause the file to be downloaded and installed. An indicator bar will show the dowload progress. When the download is finished, the machine will return to its ready state. Info Terminal

## **1.5** Info Terminal

This lets you monitor the current status and operating mode of the keycard Return Machine. This software can be run from any PC with a network connection at the resort.

When run, the program first opens a start window showing current system stats:

Fig. 5: Information Terminal	
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keycard Return Machine Information Terminal	_
Status: on-line	
keycards: 84	
Hopper 142	
Date/Time Key number From: 12 •, 02 •, 2004 • 11 • : 20 •	
To:     12 •.     02 •.     2004 •     11 •:     30 •       Kind of entries:     Entries per page:     SEARCH       all     •     30 •	
SKIDATA access unlimited 12.02.20	104

- Status: In Service / Out of Service
- keycards: Current keycard filling level
- Dispenser or hopper: Current banknote or coin filling level

#### **1.5.1** Searching the event log

It is possible to restrict the list of log entries to a specific period by specifying dates and times.

#### From – Until

Enter a start and end time and date to narrow down the list of log entries.

#### Kind of entries:

- All: all journal entries
- Errors Only: Errors that occurred when returning cards (e.g., incorrect residual value, wrong keycard, etc.)
- Exception Errors: all servicve functions, error messages, Out of Service notifications, etc.

#### Entries per page:

Specifies the number of list entries to be displayed per screen page

#### Search

Hit the 'Search' button to apply the search filter; the list of matching log entries will be displayed on the screen.

Info Terminal

#### Fig. 6: Log entries for a specified period

🧧 KCR	leturn Info T	erminal - Mic	osoft Internet Explorer	8 <u>-</u> 0 ×
Date	ei <u>B</u> earbeiter	n <u>A</u> nsicht <u>F</u>	avoriten E <u>x</u> tras <u>?</u>	18 C
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Kir	nd of entries Ju		Entries per page: SEARCH	
19	111			
			Mark and K. M	
			N N 1/34 P P	
	1 20.01.20	104 01:39:58	daily closing is being performed	
	2 19.01.20	104 16:30:35	The return machine's door has been closed	
	3 19.01.20	04 16:30:34	Service menu closed	
	4 19.01.20	04 16:29:21	The return machine's door has been opened	
	5 19.01.20	04 16:29:16	Service menu opened	
	6 19.01.20	04 16:29:16	user assigned card plugged	
	7 19.01.20	)04 16:29:16	ticket read: 29-16147115513376417860	
	<mark>8 19.01.20</mark>	04 16:29:10	Return machine is out of order	
	<mark>9 19.01.</mark> 20	04 16:29:10	Catchment tank full resp. return cash tank empty on return machine	
1	19.01.20	04 16:29:10	keycard with serial number 30-16147256250428991159 returned	
1	19.01.20	04 16:29:06	ticket read: 30-16147256250428991159	
1	12 19.01.20	04 16:29:04	keycard with serial number 29-16147115513376422326 returned	
1	19.01.20	)04 16:29:00	ticket read: 29-16147115513376422326	
1	19.01.20	JO4 16:28:58	keycard with serial number 30-16147256250428990005 returned	
1	19.01.20	04 16:28:54	ticket read: 30-16147256250428990005	
1	19.01.20	104 16:28:52	keycard with serial number 29-16147115513376416453 returned	
1	19.01.20	104 16:28:48	ticket read: 29-16147115513376416453	
1	18 19.01.20	104 16:28:45	Keycard with serial number 29-16147115513376418044 returned	
1	19 19.01.20	104 16:28:41	ticket read: 29-1614/1155133/6418044	
2	20 19.01.20	104 16:28:39	keycaru witi seriai number 29-1614/1155133/6418328 retUMed	
🕘 Fert	tia		🔂 Loka	iles Intranet

#### Column 1:

The first column contains the line number. The background colour indicates the type of entry.

- Green: normal operation; entry shows details of read and accepted keycards
- Orange: error messages
- Red: exception error messages

#### Columns 2 and 3

Show the date and time of events.

#### Column 4

Contains logged details of relevant system events. Every time a keycard is read or accepted, its serial number is logged.

#### 1.5.2 Key Number

On the 'Key Number' tab, you can enter a key no. to search the log for matching entries.

Enter the number in the 'Key No.' input box and hit the 'Search' button.

Each matching entry will be displayed on a separate page. The number of search results therefore corresponds to the displayed number of pages. You can browse through the results; the list on each page includes the 15 entries preceding the matching entry, and the 15 entries following it. The matching entry is shown in bold lettering.

Info Terminal

#### Fig. 7: Information Terminal

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		.arus. 04			
	Норр	per 142			
	Date/	/Time Key number			
	Key numb	er: 30-16147256250428	98 SEARCH		
			🔰 🚽 1/22 🕨 📕		
	1	09.02.2004 01:40:00	daily closing is being performed		
	2	08.02.2004 01:40:00	daily closing is being performed		
	3	07.02.2004 01:40:00	daily closing is being performed		
	4	06.02.2004 16:57:32	Return mechanics is on-line		
	5	06.02.2004 01:40:00	daily closing is being performed		
	6	06.02.2004 01:38:15	daily closing is being performed		
		05.02.2004 17:14:14	ine return machine's door has been closed		
	8	05.02.2004 17:14:07	ticket read: 14-18014404502433728		
	7	05.02.2004 17:11:47	ticket read: 30.16147256250428084206		
	11	05.02.2004 17:10:19	Return is prohibited because of the permission, $gkpr = 655163407$		
	12	05.02.2004 17:10:19	ticket read: 30-16147256250428984296		
	13	05.02.2004 17:10:05	Return is prohibited because of the permission, gknr = 655163407		
	14	05.02.2004 17:10:05	ticket read: 30-16147256250428984296		
	15	05.02.2004 17:09:48	keycard with serial number 30-16147256250428987349 return	ed	
	16	05.02.2004 17:09:40	ticket read: 30-16147256250428987349		
	17	05.02.2004 17:07:34	Return mechanics is on-line		
	18	05.02.2004 17:03:02	ticket read: 29-16147115513376423339		
	19	05.02.2004 17:02:51	Return mechanics is on-line		
	20	05.02.2004 17:01:56	ticket read: 29-16147115513376423339		
	21	05.02.2004 17:01:30	ticket read: 29-16147115513376423339		
	22	05.02.2004 17:01:12	ticket read: 29-16147115513376423339		
	23	05.02.2004 17:00:30	ticket read: 8-9829936		
	24	05.02.2004 17:00:17	ticket read: 8-9829936		
	25	05.02.2004 16:59:53	keycard with serial number 8-9829936 returned		
	26	05.02.2004 16:59:43	ticket read: 0-9029936		
	- 27	05.02.2004 16:58:41	ticket read: 8,9829936		
	20 20	05.02.2004 16:50:31	ticket read: 8-9829936		
	42 30	05.02.2004 16.54.27	keycard with serial number 30-16147256250428990722 returned		
	30	0010212004 10104127			
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Dimensions

#### 7 1.6

## **1.6 Dimensions**



Fig. 1: keycard Return Machine – dimensions

# 1.7 Front View & Description of Components





- 10,4" LCD monitor
- Softkeys
- Ticket slot (illuminated)
- Enclosure lock
- Change tray (illuminated)

#### 1.7.1 Keycard Return Machine – dimensions



Fig. 3: keycard Return Machine – dimensions

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#### 1.7.2 Mounting

**Important note**: The PCBs are equipped with integrated circuits that are sensitive to electrostatic discharges. When performing service or maintenance work on the device, be careful not to touch any of these ICs.

Avoid any unnecessary touching of the PCBs. Before proceeding with the installation, check the machine for possible transport damage.

Always disconnect the device from the mains supply before working on any of its electrical or mechanical parts.

#### Please note:

- When mounting the device in a recessed area, ensure a minimum wall clearance of 50 mm on both sides.
- The device must be protected against rain and snow (e.g., by means of protective roofing).
- The device must not be exposed to direct sunlight.
- Note the swivel radius of the door and make the necessary allowances when mounting the unit.
- Opening the device during rain or snowfalls may cause damage to the electronic components inside.

#### 1.7.2.1 Mounting on wall mounting brackets

#### **General notice for wall mounting:**

The wall mounting brackets may only be mounted on concrete walls.







The distance between the two consoles (hole centres) is 560 mm.





 Insert 2 anchor dowels (recommended type: HILTI HST M12/50) into the concrete wall, in accordance with manufacturer's instructions.

- Attach the consoles to the anchor dowels and fasten them tightly with hexagon nuts and washers.
- Make sure that the consoled are mounted exactly horizontally.
- Using a fork lift or with the help of a sufficient number of people, lift the machine onto the consoles. (note that the device weighs approximately 100 kg!)
- Align the machine so that the mounting holes in its enclosure are concentric with the threaded holes in the consoles. When doing so, make sure that the device is properly secured to avoid personal injury or damage to the device.
- Screw the supplied four M 16 threaded pins into the consoles, with hexagon sockets facing up and hexagon nuts and washers attached on the other end, as illustrated above.
- Turn the lower hexagon nuts to adjust the enclosure until it aligns with the surrounding wall and floor surfaces.
- Place the four upper hexagon nuts and washers on the pins and fasten them.
- Check again for correct alignment of the enclosure.



#### Important:

Avoid drilling dust from getting inside the unit, as electrically conductive particles may cause damage to the components.



#### Fig. 6: Aligning the unit

# Steps to be taken after mounting: Checking the Reed swich (Reed magnet)

Once you have installed the machine, verify that the Reed is func-tioning correctly when closing the door. In case the switch does not work properly, reset it to its correct position ('X') by shifting the trigger magnet.





Front View & Description of Components

#### **1.7.3** Mounting on rack stand

#### Warning notice:

The rack stand may only be installed on an appropriate horizontal concrete ground surface.

#### Fig. 8: Mounting on rack stand



- Secure the rack stand to the concrete floor using anchor dowels. In case the flooring is made from other material, make sure that it is suitable for the weight and expected mechanical force exerted by the device.
- In case the ground surface is uneven, the rack stand should be mounted onto glue anchors inserted into the ground. Use washers to compensate for slants caused by the unevenness.
- Using a fork lift or with the help of a sufficient number of people, lift the machine onto the consoles (note that the device weighs around 100 kg!)
- Align the machine so that the mounting holes in its enclosure are concentric with the threaded holes in the consoles. When

doing so, make sure that the device is properly secured to avoid personal injury or damage to the device.

- Screw the supplied 4 threaded M 16 pins with hexagon sockets facing up and hexagon nuts and washers attached on the other end into the consoles (see Fig. 6: Aligning the unit).
- Turn the lower hexagon nuts to adjust the enclosure until it aligns with the surrounding wall and floor surfaces.
- Place the four upper hexagon nuts and washers on the pins and fasten them.
- Check again for correct alignment of the enclosure.

#### Power supply:

90 V – 264 V; 47 Hz – 63 Hz Selector switch on power adaptor (version with banknote dispensing function only) Wide-range voltage input (version with coin dispensing function only)

Power: 775 W max.



#### Important:

Electrical installation and maintenance work may only be carried out by qualified, licensed electricians. Power connections must be hard-wired. Ensure full compliance with all applicable national and international rules and directives regarding electric connections, and all applicable safety regulations.

#### Ensure the following before installing electrical connections:

- Check for correct supply voltage (120 or 230 VAC)
- Mains connections must comply with national standards and directives.
- When using flexible stranded wires, all filaments must be placed inside the terminal clamps; (use wire-end sleeves as necessary)
- The mains supply line must be fused in accordance with applicable standards.
- Check the insulation resistance of the cables to make sure it exceeds 0.5  $\mbox{M}\Omega$
- Cables must be fastened to the mounting the plate by way of strain relief clamps and cable ties.
- Check the network cables to ensure the proper loop impedance.
- Measure the resistance of the earth conductor to make sure it is sufficiently low-ohmic.
- Check the earth wiring of the entire electrical assembly.



#### Important:

Always make sure that the unit is disconnected from the mains when working on electrical components.

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#### Note:

The type and dimension of cables must comply with applicable national regulations in terms of the following:

- Mechanical strength
- Withstand strength
- Cross-section with regard to voltage drop
- Current load and short-circuit protection
- Heating

To connect the cables, you must remove the cover of sd412.

#### **1.8.1 Connecting control board sd412**





Fig. 10: Correctly inserted wire



#### 1.8.2 Strain relief

Fig. 11: Strain relief



#### Stripping connecting wires

To prevent short circuits between conductors or between conductors and chassis parts, wires should not be stripped by more than 6 mm (recommended amount).

When attaching connecting wires, ensure that the insulation covers the wire up to the metal clamp-in terminals.



#### Important:

After connecting the wires, check to make sure they are all correctly attached.

- Note that the torque applied to the terminals must not exceed 0.5 – 0.6 Nm
- Max. cross-sectional area of conductors: 2.5 mm<sup>2</sup> / AWG 12 (rigid or flexible)



#### 1.8.3 Heater

#### Important:

At ambient temperatures of 5 °C or less the front door must not remain open for longer than 5 minutes (at most).

#### Setting the thermostat

The factory setting of the thermostat allows for trouble-free operation under normal operating conditions, without any danger of overheating.

However, if it is necessary to adjust the thermostat (e.g., in case of extreme ambient conditions), it should be set so that the machine cannot overheat.

Fig. 12: Heater (outdoor installation)



Fig. 13: Heater (indoor installation)



 $\ensuremath{\text{PC}}$  connections

# **1.9 PC connections**

1.9.1 Connectors

Fig. 14: Connectors: mechanism; softkey buttons, power supply





Fig. 15: Monitor plug-in connector

#### **1.9.2 IPC** connections (rear)

COM 1 (mechanism) Softkeys Ø о С <u>с</u> ە:::::) ە ە 😳 🖓 C C 11 - 0 COM8 UPS C ARCNE 11 ಂಟ್ರಾಂಟ್ ಂಟ್ರಾಂ Illinni IJ ه <del>(....)</del> ه • ..... • 11 🖂 сом4 5 ' ' ZIPT <u> Horo</u> Ho ٥ (::::)٥ ٥ (::::)٥ ::::**:)**o 1 Monitor (VGA) Ethernet

#### Fig. 16: IPC connections

Important:

closed.

# 1.10 Replacing the keycard Container

#### **1.10.1** Removing the keycard container



Fig. 17: Removing the keycard container



The container can only be removed if the card insert channel is

- Push the card insert channel down (see illustration).
- Pull out the container.

Page 32



#### Important:

When pulling out the container, remember that it may be quite heavy and may cause injury if not handled properly.

#### **1.10.2** Inserting the keycard container

Fig. 18: Inserting the keycard container



- Press the push-button down and forward, as illustrated (arrows).
- Close the cover and lock the container, making sure that the card insert channel is completely open and unobstructed.
- Push the container in as far as it will go.

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#### **1.10.3** Inserting the coin cashbox



Fig. 19: Coin cashbox

#### Important:

When pulling out the coin cashbox, remember that it may be quite heavy when full and may cause injury if not handled properly.



Fig. 20: Removing the coin

cashbox



#### **1.10.4** Removing the coin cashbox

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# 1.11 Dispenser

Fig. 21:Removing the Dispenser





#### **Status indicator**

- After removal: RED
- Before inserting: GREEN

#### Opening the Dispenser box

- Place the box onto the unlockig rail.
- Push in the box as far as it will go.
- Open the box by turning the key.

Fig. 23: Placing the Dispenser on the unlocking rail



7

1.11



Fig. 24: Filling the Dispenser box with banknotes

7 1.11

Dispenser



- Close the cover.
- The status indicator must switch to GREEN.



#### Important:

The Dispenser box can only be inserted when the status indicator shows GREEN.

#### 1.12.1 Keyboard rest

Fig. 26: Keyboard rest



- Pull out the keyboard rest and fold it down.
- Place the keyboard on the rest.

Preparing IPC Settings

#### **1.12.2** Swivelling the monitor





- Loosen the screw by turning it counterclockwise (see item 1 in the illustration).
- Swivel out the monitor as indicated (see item 2 in the illustration).



#### Important:

Avoid touching the screen surface of the LCD panel, as this may damage the display unit.

7 1.12

Fig. 28: Monitor, swivelled out



7

Replacing the Mechanism

# **1.13 Replacing the Mechanism**



#### Important:

Switch off the device before replacing the mechanism.

 Remove the two hexagon nuts on the side panel of the mechanism.





# **1.14 Closing the Bolted-open Door**





 To close the bolted-open door, lift the locking pin and close the door.

keycard Return Machine

Closing the Bolted-open Door