Easy Access Transponder Stand-Alone 11.15 -

Operating instructions

Easy Access
Transponder
Stand-Alone

JUNGHEINRICH

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Declaration of Conformity

C E

Jungheinrich AG, Friedrich-Ebert-Damm 129, 22047 Hamburg, Germany
Manufacturer or agent acting in the European Union

Model	Option	Serial no.	Year of manufacture
Easy Access Transponder Stand-Alone			

Additional information

On behalf of

Date

G **EC Declaration of Conformity**

The undersigned hereby declare that the module described below in detail complies with the European Directives 2006/42/EC (Machinery Directive), 2014/35/EU (electrical equipment designed for use within certain voltage limits) and 2014/30/EU (Electromagnetic Compatibility - EMC) including amendments as well as the legislative decree to incorporate the directives in national law. The signatories are in each case individually authorised to compile the technical documents.

The undersigned hereby declares that the aforementioned radio equipment satisfies Directive 2014/53/EU.
The full text of the EU Declaration of Conformity is available at the following address: www.jungheinrich.com/declaration-of-conformity

Foreword

Notes on the operating instructions

These ORIGINAL OPERATING INSTRUCTIONS are designed to provide sufficient instruction for the safe operation of the Easy Access transponder standalone module. The information is presented in a precise and clear manner. The chapters are arranged by letter and the pages are numbered continuously.

When operating and performing maintenance work, make sure that you use the description that applies to the Easy Access Transponder Stand-Alone Modul.

Our Easy Access Transponder Stand-Alone Modul undergoes continual ongoing development. We reserve the right to alter the design, features and technical aspects of the equipment. No guarantee of particular features of the Easy Access transponder standalone module should therefore be assumed from these operating instructions.

Safety notices and markings

Safety notices and other important notices and their significance are indicated by the following safety warning notices and signal words:

⚠ **DANGER!**

Danger refers to an acutely hazardous situation that will result in severe and even fatal injuries if the instruction is ignored.

⚠ **WARNING!**

Warning refers to a potentially hazardous situation that could result in severe and even fatal injuries if the instruction is ignored.

⚠ **CAUTION!**

Caution refers to a situation that could result in minor to moderate injuries if the instruction is ignored.

NOTE

Note refers to information that does not relate to the possible endangering of persons.

Z This message appears when particular information, instructions or notices are required with regard to procedures, equipment, tools, pressures, capacity loads and other special data.

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Copyright

Copyright of these operating instructions remains with JUNGHEINRICH AG.

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Contents

A Correct Use and Application

1   Approved application conditions

– Operation in industrial and commercial environments.
– Permissible temperature range -28°C to +65°C.

⚠ WARNING!

Operation under extreme conditions

Operation of the Easy Access transponder standalone module under extreme conditions can lead to malfunctions.

▶Operation under extreme conditions, in particular in very dusty or corrosive environments, is not permitted.

▶Operation in areas at risk of explosion is not permitted.

▶In adverse weather conditions (thunder, lightning), the Easy Access transponder standalone module must not be operated outdoors or in endangered areas.

2 Proprietor responsibilities

For the purposes of these operating instructions, the "operating company" is defined as any natural or legal person who either uses the Easy Access Transponder StandAlone Modul himself, or on whose behalf it is used. In special cases (e.g. leasing or renting) the operating company is considered the person who, in accordance with existing contractual agreements between the owner and operator of the Easy Access transponder standalone module, is charged with operational duties.

The operating company must ensure that the Easy Access Transponder Stand-Alone Modul is used only for the purpose it is intended. The operating company must ensure that all operators have read and understood these operating instructions.

NOTE

Failure to comply with these operating instructions shall invalidate the warranty. The same applies if improper work is carried out on the appliance by the customer and/or third parties without the permission of the manufacturer.

B   Component Description

1   Application

The Easy Access Transponder Stand-Alone Modul is an access system.
Activation is via a transponder in accordance with DIN ISO/IEC 14443 A/B, via soft
key entry on delivery.

2 Technical Specifications

All technical specifications refer to a standard module.

Z Technical modifications and additions reserved.

2.1 Module

Power supply	12 VDC to 48 VDC
Current consumption during operation (maximum)	12 V - 120 mA
	24 V - 60 mA
	48 V - 35 mA
Standby current consumption	8 mA at 24 V
Dimensions	67.4 x 67.4 x 54.9 mm
Protection rating	IP 65 at the front IP 54 at the back with connector plugged in
Ambient temperature	-28°C to 65°C
Storage temperature	-40°C to 80°C
Relative air humidity	5 to 95% (in operation), no thawing
Rated RF output power	Frequency: 13,56 Mhz Electric field intensity: < 29,5 dBµV/m @30m

2.2 Connection Assignment for 14-Pin Connector

PIN	Signal
1	+ relay
2	Relay output
3	+ relay
4	Relay output
5	+ relay
6	Relay output
7	CANL

8	+ supply
9	CANH
10	Activity detection (low active)
11	GND
12	GND
13	GND
14	GND

2.3 EN norms

Electromagnetic compatibility (EMC)

The manufacturer confirms that the truck adheres to the limits for electromagnetic emissions and resistance as well as the static electricity discharge test in accordance with EN 300330-1 as well as the standardised instructions contained therein.

FCC Statement

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.

NOTE

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Federal Communication Commission (FCC) Statement

Industry Canada (IC) Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
1 . This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1.L'appareil ne doit pas produire de brouillage;

2.L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Z No changes to electric or electronic components or their arrangement may be made without the written agreement of the manufacturer.

⚠ **WARNING!**

Medical equipment can malfunction due to non-ionising radiation

The module electrical equipment that emits non-ionising radiation (e.g. transponder reader) can affect the operators' medical equipment (pacemakers, hearing aids etc.) and result in malfunctions. Consult a doctor or the manufacturer of the medical equipment to clarify whether it can be used near the industrial truck.

2.4 Conditions of use

Ambient temperature

-28°C to +65°C

2.5 Electrical requirements

The manufacturer certifies compliance with the requirements for the design and manufacture of electrical equipment, according to EN 1175 "Safety of industrial trucks - Electrical requirements" and EN 60204-1 "Safety of machinery - Electrical equipment of machines", provided the module is used correctly.

2.6 Nameplate

Dimensions: 19 x 38 mm

Location of nameplate
The pictures just indicate the nameplate location on the product. The final content is as stated above.

C Operation

1 Easy Access Transponder Stand-Alone Module

1.1 Easy Access Transponder Stand-Alone Module Description

Item	Control/ display	Function
1	Key allocation	see page 18.
2	Keys	Selection keys for the corresponding functions.

1.2 Button allocation of the display

Symbol	Function
✔	Confirms an entry or a transponder

⏻	Switches off the machine
⚙	Settings: Switches to the menu for managing the codes/transponders and for the log-in history
🔑	Change access code/transponder: To add or delete codes/transponders
⚙🔑	Change set-up code/set-up transponder: To activate the transponder reader and add/delete the set-up transponder
↖	Back: Cancels the current process and returns to the previous menu
	Up arrow: Selection of codes/transponders
	Down arrow: Selection of codes/transponders
C	Clear: Deletes selected codes/transponders
+	Add: To add transponders
📝	Log-in history: Displays the chronological log-in history

1.3 Operation of the Easy Access Transponder Stand-Alone Module

The keyless access system allows an individual access code to be allocated to each operator.

Item	Description
3	Display unit (as-supplied condition): – Entry of 4-digit default or set-up code, using the numbers 1 to 4
4	Transponder reader: – Read area for the transponder

2 Operation of the Easy Access Transponder Stand-Alone Module

2.1 General Information about the Use of the Keyless Access System

The default code is to be found on a sticker. When using for the first time, change the set-up code and remove the sticker!

– Default code: 1-2-3-4
– Factory set-up code: 2-4-1-2

Z When a valid code is entered or a valid transponder used, a green tick appears on the display unit.

When an invalid code has been entered or an invalid transponder used, a red cross is displayed, and the entry must be repeated.

Z Once a certain length of time has elapsed without entry of a code or use of a transponder, the display unit switches to standby mode. Pressing any key cancels standby mode.

The following additional settings can be performed by the manufacturer's customer service department.

2.2 Using the Display:

2.2.1 Activating the Module with the Default Code

Procedure
- Release the emergency disconnect switch.
- Enter the default code 1-2-3-4 using the soft keys below the display (3).

The module is enabled.

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2.2.2 Blocking an Enabled Module

Procedure
- Press the key under the "Switch off" symbol (5) on the display unit.5

The module is blocked.

Z As an option, the customer service department can pre-set the module such that the module is blocked automatically after a defined delay at a standstill. Automatic blocking does not occur if the module has been enabled by the set-up code or the set-up transponder.

2.3 Commissioning the Transponder Reader

In the as-supplied condition, the Easy Access transponder standalone module can be enabled only by using the keys on the display unit. The operating company needs to activate the transponder reader. Once the transponder reader has been activated, the module can be enabled only by using transponders.

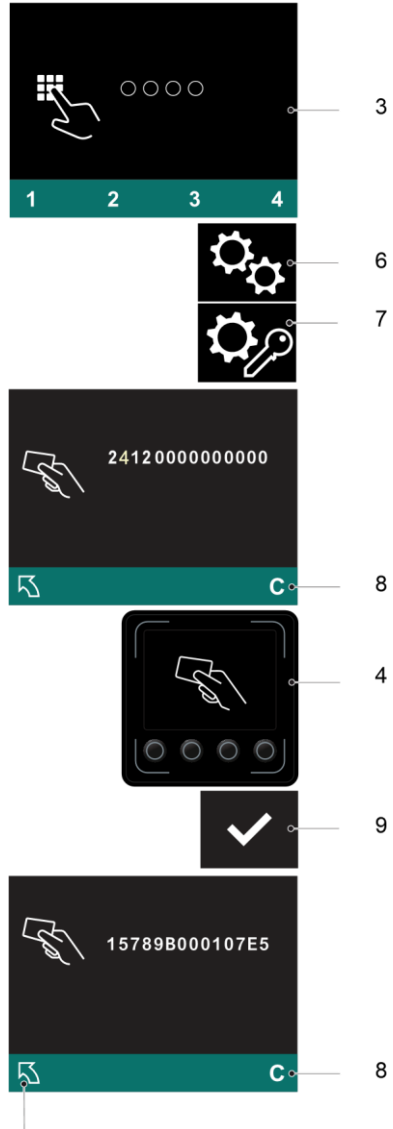### 2.3.1 Activating the transponder reader

Procedure

- Release the emergency disconnectswitch.
- Enter the default code 1-2-3-4 using thekeys below the display unit (3). *The truck is switched on.*

- Press the key below the "Settings"symbol (6).
- Press the key below the "Change set-upcode" symbol (7).
- Enter the set-up code 2-4-1-2 using thekeys below the display unit (3). *The set-up code entered is displayed.*

- Press the key below the "Delete"symbol (8).
  The set-up code is deleted.

- Hold a transponder in front of thetransponder reader (4).
  This transponder thus becomes the setup transponder.

- Press the key below the "Confirm"symbol (9).
  The ID of the set-up transponder is displayed.

Z *If the wrong transponder has been used, the procedure can be repeated using the key below the "Delete" symbol (8).*

- To return to the main menu, press thekey below the "Back" symbol (10).

Z The default code can no longer be used and must be deleted.

- Delete the default code, see page 26.
- Add new transponders, see page 25.

The transponder reader is now active.

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2.4 Using the Transponder Reader

Do not damage the transponders. The module cannot be switched on with damaged transponders.
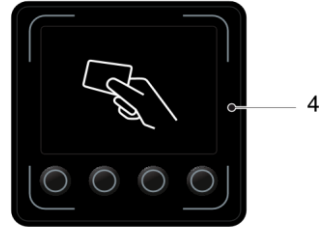
2.4.1 Activating the Module with a Transponder

Procedure
- Release the emergency disconnect switch.
- Hold a transponder in front of thetransponder read area (4).

  A green tick appears and remains until the transponder has been confirmed. If there is no confirmation within 20 seconds, the access prompt appears.

• Press the key below the "Confirm" symbol (9).

The module is enabled.

2.4.2 Blocking an Enabled Module

Procedure
- Press the key under the "Switch off" symbol (5) on thedisplay unit.
- Press the emergency disconnect switch.

The module is blocked.

Z As an option, the customer service department can pre-set the module such that the module is blocked automatically after a defined delay at a standstill. Automatic blocking does not occur if the module has been enabled by the set-up code or the set-up transponder.

2.4.3 Adding a new transponder

Requirements
– The truck is switched on, see page 24.

Procedure
- Press the key below the "Settings"symbol (6).
- Press the key below the "Edit transponder" symbol (11). *A set-up transponder is requested.*

- Place the set-up transponder on thetransponder reader (4). *All transponder IDs are shown on the display unit (3).*

- Press the key below the "Add"symbol (12).
- Place the new transponder on thetransponder reader (4).

Z The new transponder ID must be different from existing transponder IDs.

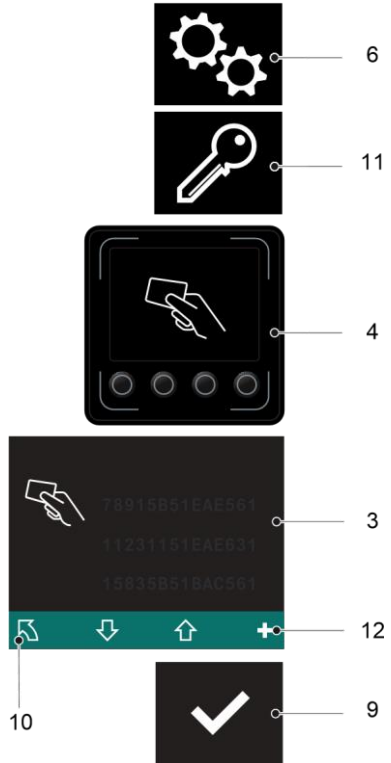- Press the key below the "Confirm"symbol (9). *The new transponder ID is displayed.*

Z If the wrong transponder has been used, delete it, see page 26, and add a correct transponder.

- To return to the main menu, press thekey below the "Back" symbol (10).

A new transponder has been added.

Z The transponder IDs saved are sorted first of all numerically and then alphabetically.

Z Up to 100 transponder IDs can be saved.
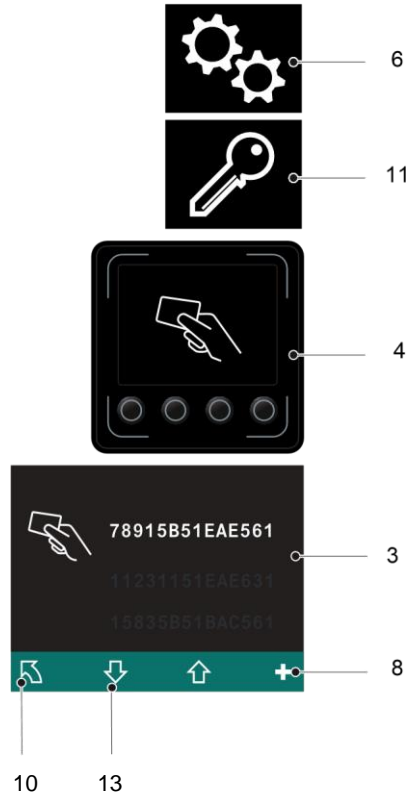
2.4.4 Deleting transponders

Requirements
– The truck is switched on, see page 24.

Procedure
- Press the key below the "Settings"symbol (6).
- Press the key below the "Edittransponder" symbol (11).
  The set-up transponder is requested.

- Place the set-up transponder on thetransponder reader (4). *All transponder IDs are shown on the display unit (3).*

- Select the transponder ID to bedeleted using the key below the "Down selection" symbol (13).
- Press the key below the "Delete"symbol (8).
  The transponder has been deleted.

- To return to the main menu, pressthe key below the "Back" symbol (10).

2.4.5 Adding a New Set-up Transponder

Requirements
– The truck is switched on, see page 24.

Procedure
- Press the key below the "Settings"symbol (6).
- Press the key below the "Change set-up transponder" symbol (11). *The set-up transponder is requested.*

- Place the set-up transponder on thetransponder reader (4).
  All transponder IDs are shown on the display unit (3).

- Press the key below the "Add"symbol (12).
- Place the new transponder on thetransponder reader (4).

Z The new transponder ID must be different from existing transponder IDs.

- Press the key below the "Confirm"symbol (9).
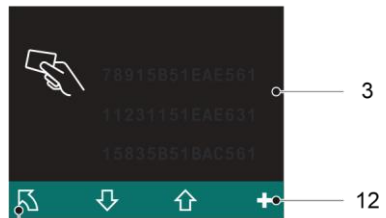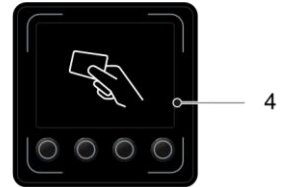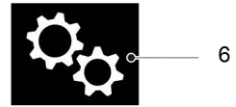 *The new transponder ID is displayed.*

Z If the wrong transponder has been used, delete the set-up transponder again, see page 26, and add the correct set-up transponder.

- To return to the main menu, press thekey below the "Back" symbol (10).

A new transponder has been added.

Z The transponder IDs saved are sorted first of all numerically and then alphabetically.

Z Up to four set-up transponder IDs can be saved.

2.4.6 Deleting a Set-up Transponder

Requirements
– The truck is switched on, see page 24.

Procedure
- Press the key below the "Settings"symbol (6).
- Press the key below the "Changeset-up transponder" symbol (11).
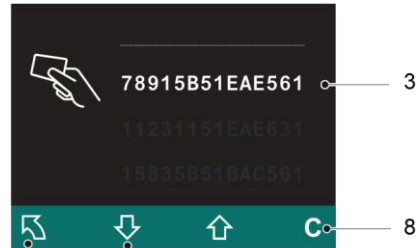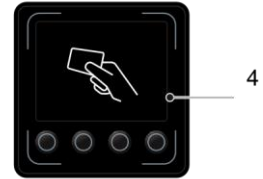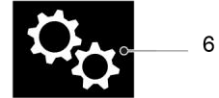 *The set-up transponder is requested.*

- Place the set-up transponder on thetransponder reader (4).
  All set-up transponder IDs are shown on the display unit (3).

- Select the set-up transponder ID tobe deleted using the key below the "Down selection" symbol (13). The set-up transponder ID that has just been used is shown in green and must not be deleted.
- Press the key below the "Delete"symbol (8).
  The set-up transponder has been deleted.

- To return to the main menu, press the key below the "Back" symbol (10).

NOTE

The transponder code used to enable the "Change set-up transponder" menu is shown in green and cannot be deleted.

3 Log-in History

The log-in history displays the last 10 transponder IDs used to enable the module in chronological order. The current log-in is displayed first.

Requirements
– Truck is switched on.

Procedure
• Press the key below the "Settings"symbol (6).
• Press the key below the "Log-in history"symbol (14).
  A set-up transponder is requested.

• Place the set-up transponder on thetransponder reader (4).
  The log-in history is displayed. The current log-in is displayed first.

• To scroll forward, press the key under the"Down selection" symbol (13). Repeat as many times as necessary.
  The display area moves and earlier log-ins are displayed.

• To scroll back, press the key under the "Upselection" symbol (15). Repeat as many times as necessary.
  The display area moves. More recent log-ins are displayed.

• To return to the main menu, press the keybelow the "Back" symbol (10).