

INSTALLATION

ID ISC.PRH200

Mobile Reader



(English)



Note

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1 Safety Instructions / Warning - Read before Start-Up

- The device may only be used for the intended purpose designed by for the manufacturer.
- The operation manual should be conveniently kept available at all times for each user.
- Unauthorized changes and the use of spare parts and additional devices which have not been sold or recommended by the manufacturer may cause fire, electric shocks or injuries. Such unauthorized measures shall exclude any liability by the manufacturer.
- The liability-prescriptions of the manufacturer in the issue valid at the time of purchase are valid
 for the device. The manufacturer shall not be held legally responsible for inaccuracies, errors,
 or omissions in the manual or automatically set parameters for a device or for an incorrect
 application of a device.
- Repairs may only be executed by the manufacturer.
- Installation, operation, and maintenance procedures should only be carried out by qualified personnel.
- Use of the device and its installation must be in accordance with national legal requirements and local electrical codes .
- When working on devices the valid safety regulations must be observed.
- Please observe that some parts of the device may heat severely.
- For installation and dismantling you should wear suitable safety gloves, because parts of antenna housing could be sharp-edged.
- Special advice for wearers of cardiac pacemakers:
 Although this device doesn't exceed the valid limits for electromagnetic fields you should keep a minimum distance of 25 cm between the device and your cardiac pacemaker. Do not holding the reader antenna for any length of time in an immediate proximity of the cardiac pacemakers



The device is not water proof and should not be exposed to rain or humidity. Under extreme circumstances water could seep into the device and damage the electronic circuits.

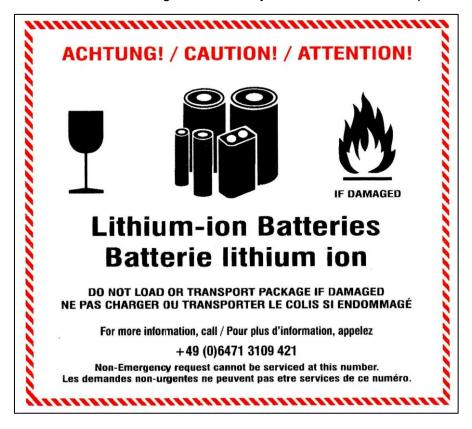
1.1 Safety Instructions / Warning - Lithium-ion battery

- Use the battery only in the intended device from Typ ID ISC.PRH200.
- Improper use, damaged chargers or battery packs of injury and fire hazard
- Expose the battery pack for no deviating from the technical data of environmental influences. Moisture and water, dust, heat, shocks and pressure can damage or destroy the battery pack.
- To use a damaged, deformed or not original sealed battery pack is prohibited. You must be disposed of properly and Expertly and may no longer be shipped in Packet
- Lithium-ion batteries must not be in the trash, they must be disposed of separately. Find out. upon the local authorities to suitable collection.
- A new battery is delivered almost nearly empty. Therefore, it must be fully charged before use.
 Even at unused devices, the battery needs to be recharged regularly. A fully charged battery pack should be fully charged again <u>latest after 6 months</u>.
- Charge the battery only with the original by FEIG ELECTRONIC GmbH supplied battery charger.
- During charging, the ambient temperature should be between 10°C and maximum 45 °C. A slight warming of the battery during charging and in use is normal.
- Store your battery in a cool, dry place. Permitted temperature range according to technical data.
- The battery pack must never be shorted out. A short-circuit the battery pack can be very hot, break and break explosively
- Avoid reverse polarity of positive and negative poles. The battery pack may be damaged or destroyed.
- Do not heat or throw the battery pack of in fire. Do not charge and leave the battery pack at the high temperature. The battery pack may ignite explosively and break
- Never disassemble the battery pack. If disassembled battery pack, safety protection circuit may cause breaking and not operated safety system for charge and discharge. May cause heating, igniting and breaking of cell.
- Do not solder to terminal of battery pack. Safety protection circuit may cause breaking and may be not operated safety system for charge and discharge. If heat up battery pack over 90°C, plastic parts may be melting and cell may be leaking and may cause heating, igniting and breaking by short-circuit internally.
- Do not subject the battery and replace the battery, no strong shocks or a strong impact.
- Do not leave the battery unattended during charging.
- Make sure that the battery label always remain on the battery pack. The information's printed on the label have to be visible during handling the battery pack.

1.2 Lithium-ion batteries – Return and Transport

Please note the following instructions for disposal or return and transport of Li-lon batteries:

- Do not load or transport Li-Ion batteries if damaged. If you have any doubts, please contact our technical support under obid-support@feig.de or phone +49 (0) 6471 3109 421.
- If the packaging is damaged, the packaging must be replaced by an undamaged original packaging before further transport.
- Li-lon batteries may only be returned in their original condition and packaging.
- The shipping regulations must be observed.
- In the case of a return, the following label is clearly visible attached to the parcel:



Print out this sheet in <u>A4 format</u> in <u>color</u>, cut it out and attach the label clearly visible on the package.

1.3 Maintenance

The reader ID ISC.PRH200 is a design product with high quality surfaces, and should always be handled with caution. The Device was designed to work reliably and flawlessly for years without special maintenance.

To improve the durability and the appearance, please follow the instructions below:



A new battery is delivered almost nearly empty. Therefore, it must be fully charged immediately after receiving and before use.

- Keep the reader clean and take care the reader is not scratched. Also regularly apply specific antistatic products for acrylic surfaces.
- A new battery is delivered almost nearly empty. Therefore, it must be fully charged immediately after receiving and before use.
- Lithium-ion batteries should never be stored discharged! Thus the cells can be damaged and the internal protective prevents recharging the battery.
- Due to the technical reasons of self-discharging, a full charged battery is discharged after a few months.
- Therefore a regularly charging of the Lithium-Ion battery pack is necessary. A fully charged battery should be recharged after 6 months.
- A new battery has not until after the second or third charging / discharging the full capacity.
 This also applies after a break of operation of a few months.
- Regularly remove dust and other impurities with a soft cloth and a solution of water with a little dishwashing liquid.
- Keep the reader dry. All kinds of moisture should be avoided during operation and storage.
 Precipitation, humidity and liquids contain minerals that will corrode electronic circuits and damaging transparent plastic parts.
- Avoid storing or operating the reader at dirty or wet locations. The surfaces or electronic components may be-damaging.
- If any device not working properly, please contact the appropriate representative.



Attention! The surfaces should be cleaned with a clean, soft cloth dampened in a dishwashing liquid – water solution.

1.4 Assembly of the wrist strap

The included hand strap is mounted on the provided eyelet and tightened.

To avoid damage, the hand strap to secure it against falling should always be used.



Fig. 1: Assembly of the wrist strap

2 Performance Features of the mobile Reader ID ISC.PRH200

2.1 Performance Features

ID ISC.PRH200 is a compact, wireless handheld reader, designed for contactless data exchange with ISO 15693 transponders, especially in libraries.

Optionally the support of the ISO18000-3M3 transponder can be released. Please contact your supplier if you are interested in.

Typical applications are:

- Inventory (Inventory books or other media in the shelf)
- · Sorting of books or media in a shelf
- Locate a book or media in a shelf or box,
- automatic checking / rewriting of the AFI bytes or EAS bit of all media.

Further applications are laundries, logistical processes as well as document and asset management. In these areas it is possible to work with ISO 18000-3M3 transponders, optionally.

Depending on the type of media and the reading distance, the output power can be switched between two levels (Standard Mode: 1.5 W and Boost Mode: 4 W). Power supply is a Lithium Ion rechargeable battery that allows for operating times up to 16 hours*.

If necessary, the battery can be replaced easily and quickly.

5 multi-colored LED lights and an integrated sounder act as display elements. Thereby all relevant states are visible on both sides of the device.

Communication with a data base or computer take place through a Wi-Fi interface on the reader, that supports the most common encryption protocols.

2.2 Available Reader Types

Article No.	Reader	Description
4213.000.00	ID ISC.PRH200	Mobile Reader with rechargeable battery and Wi-Fi-Interface

Table 1: Available Reader Types

2.3 Available Spare Parts

Article No.	Spare part	Description
4214.000.00	ID ISC.SRB Spare Rechargeable Battery	Spare or additional battery-pack
4215.000.00	ID CHA.Li-Ion Recharger	Spare charger for battery-pack

Table 2: Available Spare parts

2.4 Available License

Article No.	Description
2956.000.00	ID ISC.FW.HF.LR1002/PRH200-ISO18000-3m3 Firmware License

Table 3: Available License

2.5 Delivery contents

- Mobile Reader with battery and Wi-Fi-Interface
- Lithium-ion battery pack
- Wall power charger & Adapter Set for international socket-outlet
- Wrist strap
- Installation instructions

- 3 Start-up
- 3.1 Side view, Button & LED's

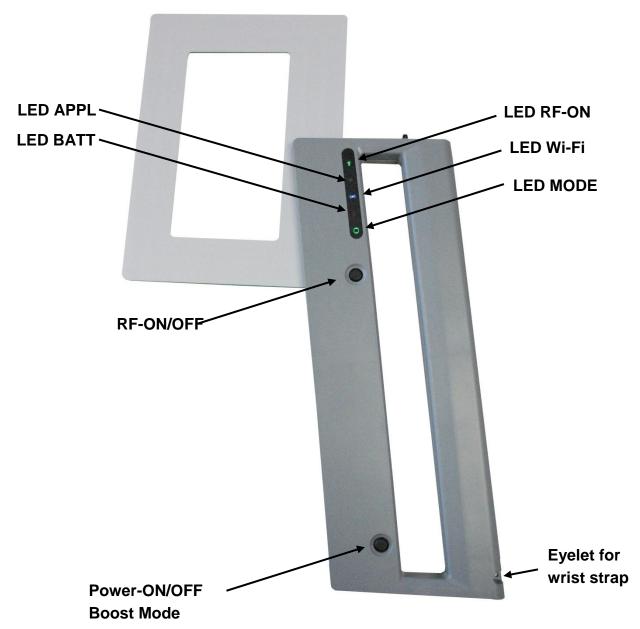


Fig. 2: Housing ID ISC.PRH200

3.2 Charge the battery

The battery pack is charged using the supplied charger. For this, the Mini-DIN connector from the charger is plugged into the side the battery pack. After installation of the adapter socket for the charger, the charger must be connected to the mains. The charging will take 2-4 hours. The battery is fully charged when the green LED remains lit on the power supply.

The device is supplied with three different removable adapter / plug:

Adapter	Country of use
	EU
	US / Canada / Japan
	Great Britain

Table 4: Removable adapter for the charger



Fig. 3: Charger with battery pack

A new battery is delivered almost nearly empty. Therefore, it must be fully charged immediately after receiving and before use.

Lithium-ion batteries should <u>never</u> be stored discharged! Thus the cells can be damaged and the internal protective prevents recharging the battery.

Due to the technical reasons of self-discharging, a full charged battery is discharged after a few months. Therefore a regularly charging of the Lithium-Ion battery pack is necessary. A fully charged battery should be recharged latest after 6 months.

A new battery has not until after the second or third charging / discharging the full capacity. This also applies after a break of operation of a few months.

4 First Wi-Fi connection with the Reader and scanning transponder

Before first use, the battery pack should be charged. See <u>3.2 Charge the battery</u>. The battery pack must be connected to the charger. The charging will take 2-4 hours. The battery is fully charged when the green LED remains lit on the power supply.

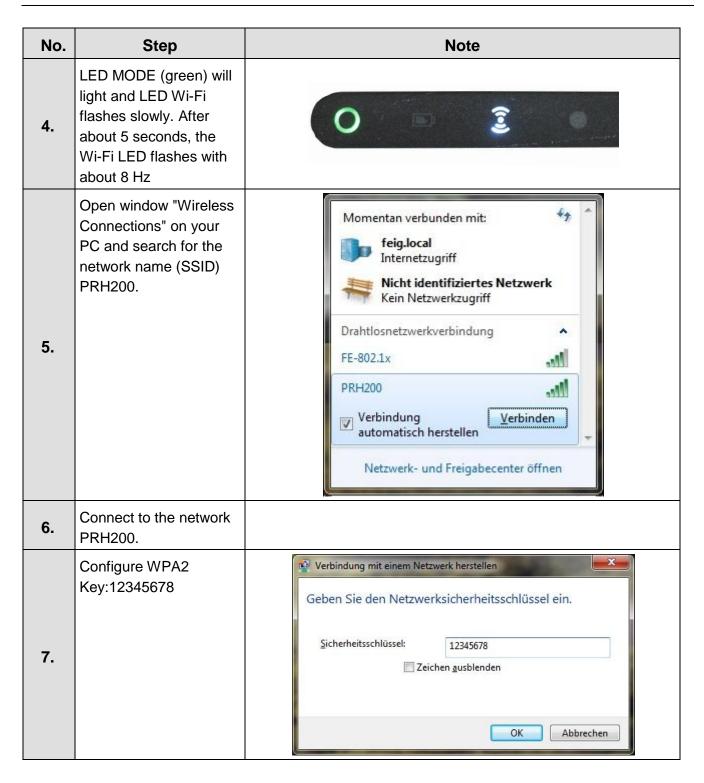
To configure the Reader you will need the software tool ISOStart Version 9.07 or higher on a personal computer running under Microsoft[®] Windows[®] with Wi-Fi interface This service tool and a simple Test and Demo Tool "PRH200_Demo" can be downloaded from the Download Area of the FEIG Homepage www.feig.de.

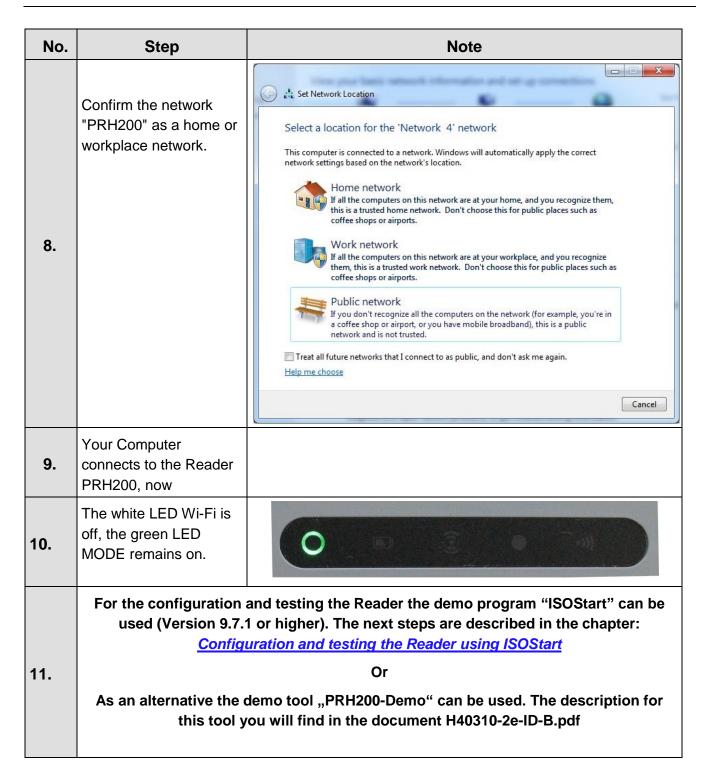
Username: PRH200 Password: handheld

The delivered reader is set on to the factory default settings and works as a "Access Point" and generates its own wireless network with the name (SSID) "**PRH200**" with WPA2 encryption (Key: 12345678). The wireless interface of the corresponding PC or laptop must be configured to "Client Mode" and DHCP "ON".

4.1 Connection in Access point Mode

No.	Step	Note
1.	Boot the Computer boot with Wi-Fi on.	
2.	Adopt the battery pack plug into the slot on the reader. The battery pack clicks into place.	
3.	Reader ON: Short press on Power-ON Button.	



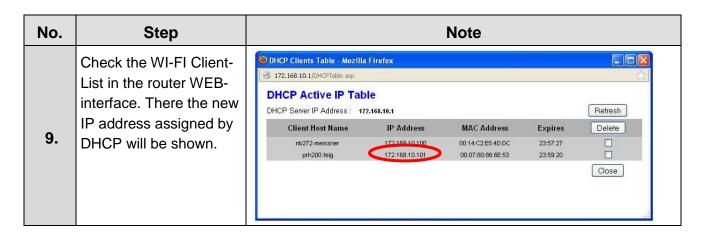


4.2 How to configure the Reader in client mode

For using the Reader in an existing WI-FI infrastructure it will be necessary to configure the reader into the Client Mode. For configuring the reader into the Client Mode the WEB-interface of the reader can be used. With the help of a standard Browser on a Laptop, Smartphone or Tablet PC you can get access to the reader Web-interface by using the reader default IP address 192.168.10.10. and WPA2 Key "12345678"

No.	Step	Note
1.	Connect the Reader ID ISC.PRH200	Connect the Reader in the Access Mode via WI-FI to a Laptop, Smart Phone or Tablet PC as described in the chapter: Connection in Access point Mode
2.	Open a Browser and write the TCP/IP Adresse 192.168.10.10.	192.168.10.10
3.	Choose the "Client" button	Main FEIG Electronic GmbH Services Access Point SSID PRH200 Channel 10 Security WPA2
4.	Either choose detected Network and set the Password (Key) of the Wi-Fi network (Router) and confirm with "Connect" button. or	Main Client configuration FE-Gast FE-Smartphone SSID Password Connect

No.	Step	Note
5.	Set the SSID and the Password (Key) of the WI-FI network (Router) and confirm with "Connect" button. The IP address and the deciphering keys will be programmed automatically into the reader.	Main Client configuration FE-Gast FE-Smartphone SSID PRH200byFEIG Password Connect
6.	Confirm the warning message with a click on the "OK" button.	Connection might be lost OK
7.	The Reader performs a reset. Afterward the Mode LED (green) lights and the WI-FI LED flashes slowly. After approx. 5 seconds the WI-FI LED flashes with approx. 4 Hz.	O 3
8.	As soon as the WI-FI LED goes off the WI-FI connection is ready to use.	0



4.3 Change SIDD / Network name or Encryption Key in Client Mode

No.	Step	Note
1.	Connect the Reader ID ISC.PRH200	Connect the Reader in the Access Mode via WI-FI to a Laptop, Smart Phone or Tablet PC as described in the chapter: Connection in Access point Mode
2.	Choose the "AP" button	Main FEIG Electronic GmbH Services Access Point SSID PRH200 Channel 10 Security WPA2
3.		Main Access point configuration SSID Client PRH200T Channel Security Password Activate
4.	Connect the Reader ID ISC.PRH200 with the new connection parameter	Connect the Reader in the Access Mode via WLAN to a Laptop, Smart Phone or Tablet PC as described in the chapter: Connection in Access point Mode

4.4 Set Wi-Fi parameter to default

Are the Wi-Fi parameter unknown or should the device be integrated into other network, all parameters to the factory settings can be set to default by a hardware reset..

No.	Step	Note
1.	Insert a thin wire (e.g. paper clip) in the hole for the reset button and hold it down. At the same time press button Power ON shortly	
2.	Hold the Reset Button for 5 seconds.	The Reader starts and the 5 LEDs flash alternately
3.	Now, all LEDs flash at 2 Hz at the same time	
4.	Now: Release the Reset Button Attention: If the Reset-button as been pushed until all LED's are on, the reader will be in client mode and the proce- dure need to be done again.	
5.	Immediately afterwards, press the Button Power-ON for 5 Seconds. -> The Reader switched off	

No.	Step	Note
6.	Short press on Power-ON Button to reboot the reader	
7.	The Wi-Fi Modul is on default values, now. SSID: PRH200 Encryption: WPA2 Key:12345678 Mode: Access Point IP Adr.: 192.168.10.10 Port: 10001	Momentan verbunden mit: OBIDWM Kein Internetzugriff Drahtlosnetzwerkverbindung OBIDWM Verbunden PRH200 Über dieses Netzwerk gesendete Informationen sind möglicherweise für andere Benutzer sichtbar. Verbindung automatisch herstellen WPS-D207 FE-Mobile-wep Netzwerk- und Freigabecenter öffnen

4.5 Wi-Fi Interfaces

The Reader has a built-in wireless interface according to the IEEE 802.11 b/g /n standard and can be configured in "Access Point" or the "Client Mode". The encryption protocols WEP / WPA / WPA2 are supported.

The Reader on delivery or factory setting is configured as "Access Point" and generates its own wireless network with the name (SSID) "PRH200" without encryption. The wireless interface of the corresponding PC or laptop must be configured to "Client Mode" and DHCP "ON".

The reader default settings of the Wi-Fi interface are:

Parameter	Default setting
SIDD	PRH200
Password / Key	12345678
DHCP	ON
Encryption	WPA2
Mode	Access Point

Table 5: Default configuration of the reader Wi-Fi interface

Network	Address
IP-Address	192.168.10.10
Subnet-Mask	255.255.0.0
Port	10001
DHCP	ON
Hostname	ON
First part of Host Name	PRH200.feig

Table 6: Default configuration of the reader (Wi-Fi) Ethernet Interface

Note:

- The Reader has a TCP/IP interface with DHCP that is turned on at the factory.
- It is recommended to configure a new network name (SSID) and the encryption according WPA/WAP2 after commissioning.
- The minimum WPA2 encryption key length is 8 characters.
- The Wi-Fi Channels 12 and 13 are not supported at some Wi-Fi Devices (e.g. some Laptops).
- To connect the Reader with a external Wi-Fi Network the reader has to switched in the Client Mode. See: 4.2 How to configure the Reader in client mode

5 Control and Display Elements

5.1 Buttons

Button	Function / Description	
RF-ON (upper button)	"RF / Antenna power switch ON / OFF" - State antenna OFF Short press -> The RF-Power of the antenna will be switched ON - State Antenna ON Short press -> The RF-Power of the antenna will be switched OFF	
Power-ON (lower button)	Power ON / OFF / Reader Mode - State Reader OFF: Short press -> Reader ON, Standard Mode - State Reader ON Short press -> Change Mode between Standard and Boost Mode) Long press -> Reader OFF	

Table 7: Function of the Buttons

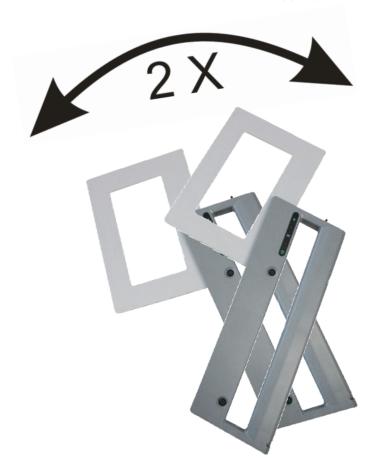
Note:

- The RF power of antenna is automatically switched OFF after a certain time if no transponder has been detected. The power Management is configurable in CFG21. Use parameter "RF-Field: minimum on-time"
- After the "RF-Field: maximum on-time" has expired the reader antenna power will switch off in any case.
- The Wi-Fi channels 12 and 13 are not supported by all wireless transmitters (e.g. some Laptops).
- After switching off the antenna power and end of the "Power on-time" in CFG21, the complete Reader will turn off automatically.

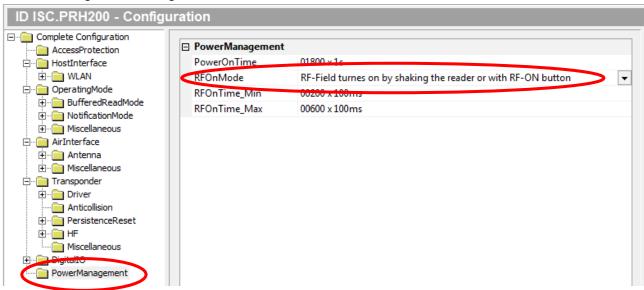
5.1 HF-ON Motion Detector

Due to shaking the Reader in the forward direction effectual and a fast movement the HF-filed can switched on alternatively to the use of the HF-ON button.

For this the reader should be hold in the center or the upper part of the handle.



The function of the movement detector can be enabled and disabled in "PowerManagement" of the Reader configuration using ISOStart.



5.2 LEDs



Fig. 4: LED (Double sided)

Table 8 show the function of the LEDs (Order from top to down).

LED	Function / Description	
LED RF-ON (green/blue)	"RF-ON / Transponder" - Green: The antenna is powered - Blue: One or more transponder are detected	
LED APPL (green, red)	"Application / Special function" - Controlled by command "Set Output" - Green: Special functions enabled (Locate Transponder by UID, data, AFI functions) - Red: Special functions: Transponder detected	
LED Wi-Fi (white)	"Wi-Fi" - OFF: Reader is connected via Wi-Fi to the Host - Flash: Wi-Fi connection runs Wi-Fi device lost connection	
LED BATT (orange, red)	 "Battery Status" OFF: Battery charged Orange: Battery reaches 15% of charge capacity, Boost Mode isn't possible. Red: Battery empty the antenna can't switched on. Red (flashing): Automatic shut-off after 5 seconds 	
LED MODE (green, white)	Power-On / Reader Mode - Normal Mode : green - Boost Mode: white	

Table 8: Configuration of the LEDs

5.3 Buzzer

The reader has a integrated buzzer.

The buzzer will be activated, if at least one of the configuration bits in the "Digital IO" is enabled.

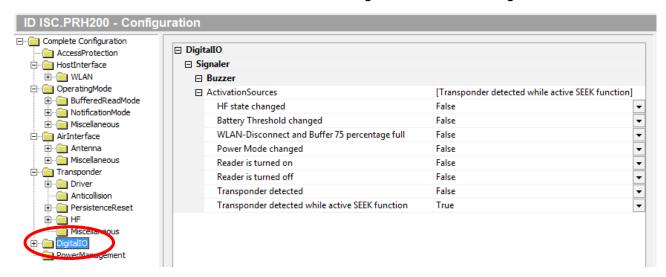
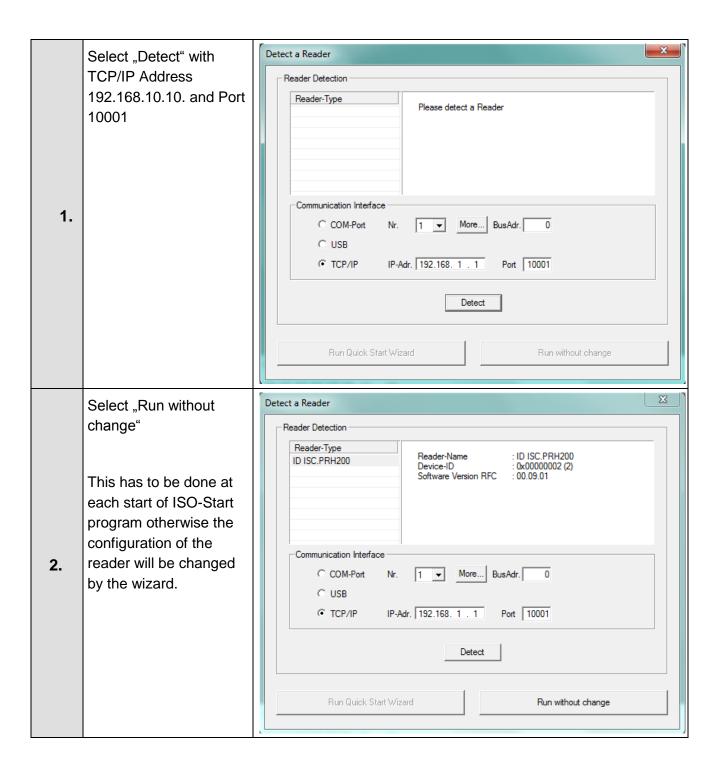
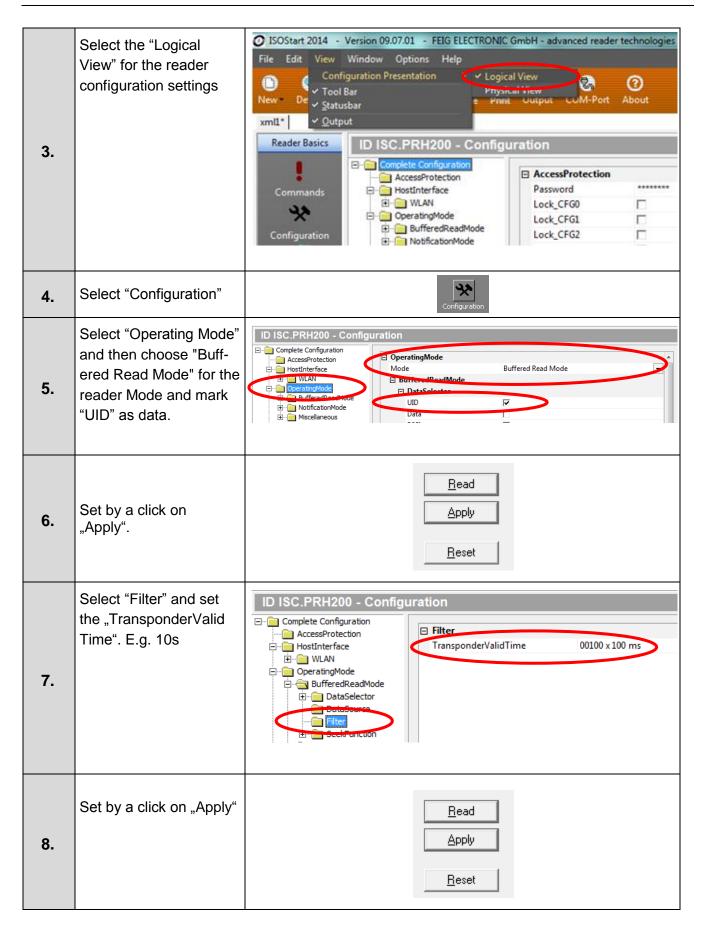


Fig. 5: Configuration of the Digital IO

6 Configuration and testing the Reader using ISOStart







9.	Select "Buffered Read Mode"	Buffered Read Mode
10.	Select Button "Initialize" to clear the data buffer of the reader	[0x33] Initialize
11.	Press button RF-ON to enable the antenna power	
12.	The LED RF ON is lit green	0

13.	Move the reader antenna along the media or Tranponder	TOYAGO DE SERVICIONE DE SERVIC
14.	If valid data is detected LED HF -ON lit blue	0
15.	After the end of the reading antenna process, switch OFF the RF antenna power	
16.	LED HF_ON goes off	
17.	Select "Start" Button to transfer the data from the reader to your Computer	<u>S</u> tart

	All stored transponder	ID	ISC DDU	200 Buffored Bo	ad Mode - 49 Records
	data sets are listed in	_		-	,
		No.	Type	Serial No.	Data Block
	the ISO Start window.	17 18	ISO 15693 ISO 15693	E00781BCC18D6815 E00781BCC18D8366	
		19	ISO 15693	E00781BCC18D6300	
	The number of data sets	20	ISO 15693	E00781BCC18D0110	
		21	ISO 15693	E00781BCC18D723C	
	and the total processing	22	ISO 15693	E00781BCC18D6712	
	time is displayed in the	23	ISO 15693	E00781BCC18D964E	
		24	ISO 15693	E00781BCC18D8451	
	header	25	ISO 15693	E00781BCC18D6929	
		26	ISO 15693	E00781BCC18D8458	
		27	ISO 15693	E00781BCC18D5F24	
		28	ISO 15693	E00781BCC18D6123	
		29 30	ISO 15693 ISO 15693	E00781BCC18D835F E00781BCC18D653F	
4.0		31	ISO 15693	E00781BCC18D553F	
18.		32	ISO 15693	E00781BCC18D5F51	
		33	ISO 15693	E00781BCC18D6E42	
		34	ISO 15693	E00781BCC18D7D4A	
		35	ISO 15693	E00781BCC18D8950	
		36	ISO 15693	E00781BCC18D8F46	
		37	ISO 15693	E00781BCC18D7F31	
		38	ISO 15693	E00781BCC18D8869	
		39	ISO 15693	E00781BCC18D6E28	
		40	ISO 15693	E00781BCC18D682D	
		41 42	ISO 15693 ISO 15693	E00781BCC18D7E0F E00781BCC18D8F55	
		42	ISO 15693	E00781BCC18D6F43	
		44	ISO 15693	E00781BCC18D586A	
		45	ISO 15693	E00781BCC18D7E16	
		46	ISO 15693	E00781BCC18D8D4A	
		47	ISO 15693	E00781BCC18D8E4D	
		48	ISO 15693	E00781BCC18D6819	
		49	ISO 15693	E00781BCC18D8C55	
	Before the next read				
	operation, the display			Clear <u>L</u> ist	<u> </u>
19.				Cical List	13
	window can be deleted				
	by the "Clear List" button				
	To read more data, re-				
20.	peat step 22-31				
	I DEAL SIED 77-31				

Note:

- To avoid unwanted readings and to save energy the reader antenna turns off the RF antenna power according to a configured time automatically.
- If not all transponder data are read, the "Boost Mode" with greater transmit power can be used. See: <u>5.1 Buttons</u>

7 Approvals

7.1 Europe (CE)

When used according to regulation, this radio equipment conforms with the basic requirements of Article 3 and the other relevant provisions of the R&TTE Guideline 1999/E6 dated March 99. Equipment Classification according to ETSI EN 300 330 and ETSI EN 301 489: Class 2



Declaration of Conformity

in accordance with the
Directive 1999/5/EC (R&TTE Directive)
&
Directive 2011/65/EU (RoHS Directive)



Product Manufacturer

: FEIG ELECTRONIC GmbH

Lange Strasse 4 D-35781 Weilburg

Germany

Phone: +49 6471 3109 0

Product Designation

: ID ISC.PRH200

Product Description

: RFID Reader

Radio equipment, Equipment

class (R&TTE)

: Class 1

FEIG ELECTRONIC GmbH declares that the radio equipment complies with the RoHS Directive 2011/65/EU and the essential requirements of Article 3 of the R&TTE Directive 1999/5/EC, when used for its intended purpose.

Standards applied:

Health and safety requirements pursuant to

R&TTE Article 3(1)(a)

EN 60950-1:2006 / AC:2011

EN 50364:2010

Protection requirements concerning electromagnetic

compatibility R&TTE Article 3(1)(b)

ETSI EN 301 489-1 V1.9.2

ETSI EN 301 489-3 V1.6.1

Measures for the efficient use of the radio frequency spectrum pursuant to R&TTE Article 3(2)

ETSI EN 300 330-2 V1.5.1 ETSI EN 300 328 V1.7.1

Weilburg, 13.05.2014

Place & date of issue

Markus Desch

Name and signature

This declaration attests to conformity with the named Directives but does not represent assurance of properties. The safety guidelines in the accompanying product documentation must be observed.

7.2 USA (FCC) and Canada (IC)

Product names:	ID ISC.PRH200
Reader name:	ID ISC.MR102
FCC ID:	PJMPRH200 6633A-PRH200
Notice for USA and Canada	This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. 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. Unauthorized modifications may void the authority granted under Federal communications Commission Rules permitting the operation of this device. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Le présent appareil est conforme aux CNR d'Industrie 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Warning: Changes or modification made to this equipment not expressly approved by FEIG ELECTRONIC GmbH may void the FCC authorization to operate this equipment.

Installation with FCC / IC Approval:

FCC-/IC-NOTICE: To comply with FCC Part 15 Rules in the United States / with IC Radio Standards in Canada, the system must be professionally installed to ensure compliance with the Part 15 certification / IC certification. It is the responsibility of the operator and professional installer to ensure that only certified systems are deployed in the United States / Canada.

A minimum separation distance of 20cm must be maintained between the Wi-Fi antenna (See picture below) and all persons at all times.

Une distance minimale de séparation de 20 cm doit être maintenue entre l'antenne Wi-Fi (voir picture ci-dessous) et toutes les personnes à tout moment.



7.3 Label Information Reader ID ISC.PRH200

The following labels are placed on the bottom side of the reader:

ID ISC.PRH200



Serial No.:

((

FCC ID: PJMPRH200 IC: 6633A-PRH200

Contains: FCC ID: QOQWF121 Contains: IC: 5123A-BGTWF121



7.3.1 USA (FCC) and Canada (IC) approved antennas

This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with maximum permission gain and required antenna impedance for each antenna type indicated. Antenna types, not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device

Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie I) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne 'énoncé ci-dessus et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur

8 Technical Data

Mechanical Data		
Reader & Antenna		
Dimensions (W x H x D) - Reader with antenna	460 mm x 260 mm x 27 mm, antenna ca: 1,5 mm thick	
- Packing	570 mm x 390 mm x 76 mm	
Weight - Reader , antenna and battery - Packing	0.6 kg 1.55 kg	
Housing	ABS/PC	
Color reader & antenna	RAL 7046 / RAL 7047	
Color battery pack	black	
Enclosure rating	IP 30	
Electrical data Reader		
Supply Voltage	Battery Pack	
-Operation Time - Standard Mode	ca. 8 h	
- Boost Mode	ca. 4 h	
Operating Frequency	13,56 MHz	
RF-Power - Standard Mode - Boost Mode	1,5 W 4,0 W	
Button	RF-ON: ON/OFF Power-ON: HF ON/OFF	
Reset-Button	Reset to factory settings	
LED's	 RF-ON Application Wi-Fi Battery Power-On / Mode 	

Signal buzzer	1 Ton
Interfaces	Wi-Fi
Wi-Fi Security Protocols	WEP / WPA / WPA2
Wi-Fi Modes	- Access Point Mode - Client Mode
Interface protocol modes	- FEIG ISO HOST - BRM (Datenfilterung und Datenpufferung) - Notifikation Mode
Supported Transponder	ISO15693 ISO18000-3M3 (after release by an Upgrade Code)
Ambient Conditions	
Temperature range – Operating – Storage	-0°C bis +40°C -25°C bis +85°C
Protection class	IP 30
Humidity	5% - 80%, non-condensing
Freefall	1,0 m
Approvals	
Radio approvals	
– Europe	EN 300 330
EMC	EN 301 489
Electrical Data Battery Pack	
Nominal Voltage	10,8 V
Nominal capacitance	3,35Ah (typical)
Maximal charging voltage	12,6 V
Maximal charge current	1,5 A
Temperature range – Operating – Storage	+10°C bis 45°C - 20°C bis 60°C
Battery connector	Mini-DIN

Dimensions (Wy Hy D)	
Dimensions (W x H x D) - Packing (Spare part)	360 mm x 110 mm x 100 mm
Weight - battery	240g
- Packing	
<u> </u>	470g
Electrical data battery charger	
Supply Voltage	100V – 240 V
	47 Hz – 64 Hz
Output Voltage	Maximal 12,44V === / 1,2 A
Efficiency	73% - 83%
Туре	Wall power battery charger & Adapter Set for international socket-outlet
Dimensions (W x H x D)	0.10
- Packing	210 mm x 75 mm x 50 mm
Weight	
- Packing (Spare part)	270g
Approval marks	CE
	UL listed
	SELV
	EN 55011 group I Class B
Charging time	3,5-4 h
Temperature range	
- Operating	- 5 °C bis +40 °C
- Storage	−25 °C bis +80 °C
Humidity	Up to 95%, non-condensing