BARTEC

English

PEGASUS
User Manual

PEGASUS 71xx Series

BARTEC

User manual

PEGASUS Type 71xx series

PEGASUS 7100	**Type G7-C011-*Q*1/0000**
PEGASUS 7110ex	**Type 17-C111-*Q*1/0000**
PEGASUS 7120ex	**Type B7-C211-*Q*1/0000**

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Reservation: Technical data subject to change without notice. Changes, errors and misprints may not be used as a basis for any claim for damages.

English

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Notes on this manual

Read carefully before putting the devices into operation.

The user manual is a constituent part of the product and must be kept in the direct vicinity of the device and accessible at all times to installation, operating and maintenance personnel.

It contains important notes, safety instructions and test certificates which are necessary for perfect functioning when the devices are being operated and handled. It is written for technically qualified personnel.

Familiarity with and the technically perfect implementation of the safety instructions and warnings described in this manual are preconditions for safe installation and commissioning. The safety notes and warnings given in this documentation are given in a general way and only qualified personnel will have the necessary specialized know-how to interpret and implement them correctly in specific cases.

Qualifications of the personnel working with the devices

The user manual is written for all people who carry out assembly, installation, commissioning and service work on the product, whereby the directives and standards must be observed.

For Europe:	99/92/EC, EN 60079-17, EN 60079-19 for the gas area EN 61241-17 and EN 61241-19 for the dust area
For North America:	NEC 500.
For other countries or regions:	National directives and standards must be observed.

Changes to the document

BARTEC reserves the right to alter the contents of this document without notice. No guarantee is given for the correctness of the information. In case of doubt the German safety instructions shall apply because it is not possible to rule out errors in translation or in printing. In the event of a legal dispute, the "General Terms and Conditions" of the BARTEC group shall apply in addition.

The respective up-to-date versions of data sheets, manuals, certificates, EC Declaration of Conformity may be downloaded from the "Ex Visualization and Communication Systems" product page at www.bartec-group.com or ordered directly from BARTEC GmbH.

Languages

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Note

The **original** user manual were written in German. All other available languages are translations of the original operating instructions.

The operating instructions are available in various languages. They are enclosed with the product in the languages German, English, French, Italian, Spanish, Czech, Swedish and Dutch.

If you require any other languages, please ask BARTEC or request them when placing the order.

Handing the Product

The documents are currently available in German and English.

The product described in this manual has been tested and left the factory in perfect condition as regards meeting safety requirements.

To maintain this condition and ensure that this product operates perfectly and safely, it may be used only in the manner described by the manufacturer. Appropriate transportation, suitable storage and careful operation are also essential for the perfect and safe operation of this product.

Safety Instructions

Read carefully before putting the devices into operation.

Safety instructions and warnings are specially highlighted in this manual and marked by symbols.

The safety instructions and warnings are assigned to the individual work steps. Careful handling and consistent observation of the instructions will prevent accidents, personal injuries and damage to property.

The adherence to all directions and safety instructions in this manual is a precondition for safe working and the correct handling of the device.

The graphic representations in these instructions serve to show the information being described and are not necessarily true to scale and they may deviate slightly from the actual construction of the device.

Marking

Particularly important points in these instructions are marked with a symbol:

Danger!
Non-observance leads to death or serious physical injury.
The necessary safety measures must be taken.

Caution!
Warning of damage to property and financial and penal disadvantages
(e.g. loss of guarantee rights, liability etc.).

Attention!
Important instructions and information on preventing disadvantageous behavior.

Note
Important instructions and information on effective, economical
and environmentally compatible handling.

1   Product Description

1.1   Definition

PEGASUS is the mobile phone/online tracking system for industry. It is perfect for utilization in extreme conditions in the chemicals and pharmaceuticals industries and also in the oil and gas industry.

PEGASUS 71xx series is available in different models and is the optimal mobile phone for every region and every field of application:

PEGASUS 7100	Grey line	(industrial version)
PEGASUS 7110ex	Blue line	(ATEX Zone 1 and 22, IECEx Zone 1; UL Class I Division 1)
PEGASUS 7120ex	Green line	(ATEX Zone 2 and 22, IECEx Zone 2; UL Class I Division 2)
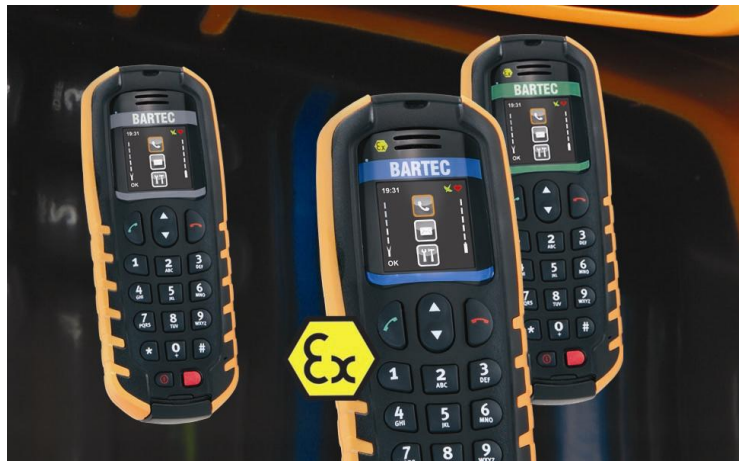
Figure 1: PEGASUS 71xx series

Each model is available in four different versions:

PEGASUS 71xx-0   type *7-C*11-0Q01/0000
PEGASUS 71xx-1   type *7-C*11-0Q11/0000   with man-down
PEGASUS 71xx-2   type *7-C*11-1Q01/0000   with online tracking
PEGASUS 71xx-3   type *7-C*11-1Q11/0000   with online tracking/with man-down

User-friendly keyboard

The keyboard is generously dimensioned and offers enough space for steady operation, even with gloves. To prevent operating errors, all keys give tactile feedback in the form of a click.

Quad Band GSM Module

Thanks to the quad band GSM module (850/900/1800/1900 MHz), the mobile phone can be used on almost all continents.

Hands-free function

The integrated loudspeaker allows convenient hands-free operation and emits a vibration alarm at the same time as the ring tone.

Professional Online Tracking System

GPS receivers and special software make PEGASUS an efficient online tracking system. The "history" function provides a map showing movement along a route. This opens up new possibilities for transporters of hazardous goods and other logistical tasks. You can choose to store and evaluate the PEGASUS data on your own server or use the server BARTEC has set up especially for it. Location inside buildings is possible only to a limited degree.

ℹ️ **Note**	A licence agreement is required in order to use the BARTEC server. Access is gained with the on-line tracking software.

Man-down function

PEGASUS is the perfect mobile phone for protecting individuals in extreme areas. The fitted sensor (motion detection) reacts to the absence of movement and triggers an emergency call after a defined period of time. A text message also transmits the last registered GPS position data providing a GPS signal is available.

1.2 Use for the Intended Purpose

The PEGASUS 71xx series conforms to the latest technical developments and recognised safety regulations. Nevertheless, its use can still cause danger to life and limb of the user or damage the device and other property.

The PEGASUS 71xx series is available in three versions:

PEGASUS 7100 Type G7-C011-*Q*1/0000
was developed for use in non Ex areas.

PEGASUS 7110ex Type 17-C111-*Q*1/0000
was developed specially for use in hazardous areas in
ATEX Zone 1 and 22, IECEx Zone 1; UL Class I Division 1.

PEGASUS 7120ex Type B7-C211-*Q*1/0000
was developed specially for use in hazardous areas in
ATEX Zone 2 and 22; IECEx Zone 2; UL Class I Division 2.

The manufacturer will not be liable for any ensuing damage. The risk shall be borne by the user alone. Use for the intended purpose requires also the observation of the operating instructions. Only people who are familiar with the PEGASUS 71xx series and instructed about the risks it poses may use it or do any maintenance work on it.

2 Technical Data PEGASUS 71xx series

2.1 Specification PEGASUS 7100, type G7-C011-*Q*1/0000

2.1.1 Marking

Marking	C E
R&TTE certificate	C E 0681
Normen:	EN 60950-1:2006+A11:2009+A1:2010
- EMV	EN 301 489 V1.3.1:2005 EN 301 489 V1.8.1:2005
- Radio	EN 301 511 V9.0.2:2003 EN 300 440-2 V1.4.1:2011 FCC Part 15/Class B

2.1.2 Technical data

Figure 2: PEGASUS 7100

Display	OLED color display
Networks	Quad Band GSM 850/900/1800/1900 MHz
Dimensions (Height x Width x Depth)	155 mm x 59 mm x 27 mm
Weight	Approx. 240 g
Rating	IP 65
Ambient temperature	-20 °C to +60 °C
Storage and transport temperature	-20 °C to +60 °C
Charging temperature	0 °C to +50 °C
Air humidity	5 % up to 95 % (non-condensing)
GSM module	Telit GE864
Power supply	Lithium polymer battery 3,7 V/2650 mAh
Interfaces	Mini USB, Bluetooth
Audio system	Microphone and speaker integrated
Antennas	Integrated in the device (GPS, GSM and Bluetooth)
Bluetooth	2.0 EDR Audio Headset profile SPP (serial protocol)

2.2　Specification PEGASUS 7110ex, type 17-C111-*Q*1/0000

2.2.1　Ex protection marking

Figure 3: PEGASUS 7110ex

ATEX marking for Zone 1	⟨Ex⟩ II 2G Ex ib IIC T4 C€ 0044
	DEMKO 10 ATEX 0911055X
IECEx marking for Zone 1	Ex ib IIC T4 Gb
	IECEx UL 10.0003X
Standards:	EN 60079-0:2009　　　　IEC 60079-0:2007 Ed5 EN 60079-11:2007　　　IEC 60079-11:2006 Ed5
ATEX marking for Zone 22	⟨Ex⟩ II 3D Ex ic IIIC T130°C Dc X C€
Standards:	IEC 60079-0:2007 Ed5 IEC 60079-11:2011 Ed6
UL marking	Class I Division 1, Groups A-D, T4
	E 321557
Standards:	UL 913 Ed7
R&TTE certificate	C€ 0681
Standards:	EN 60950-1:2006+A11:2009+A1:2010
- EMC	EN 301 489 V1.3.1:2005 EN 301 489 V1.8.1:2005
- Radio	EN 301 511 V9.0.2:2003 EN 300 440-2 V1.4.1:2011 FCC Part 15/Class B
Directives	94/9/EG　　　2004/108 EG　1999/5/EG

2.2.2　Technical data

Display	OLED color display
Networks	Quad Band GSM 850/900/1800/1900 MHz
Dimensions (Height x Width x Depth)	155 mm x 59 mm x 27 mm
Weight	Approx. 240 g
Rating	IP 65
Ambient temperature	-20 °C to +60 °C
Storage and transport temperature	-20 °C to +60 °C
Charging temperature	0 °C to +50 °C
Air humidity	5 % up to 95 % (non-condensing)
GSM module	Telit GE864
Power supply	Lithium polymer battery 3,7 V/2650 mAh
Interfaces	Mini USB, Bluetooth
Audio system	Microphone and speaker integrated
Antennas	Integrated in the device (GPS, GSM and Bluetooth)
Bluetooth	2.0 EDR Audio Headset profile SPP (serial protocol)

2.3 Specification PEGASUS 7120ex, type B7-C211-*Q*1/0000

2.3.1 Ex protection marking

Figure 4: PEGASUS 7210ex

ATEX marking for Zone 2	⟨Ex⟩ II 3G Ex ic IIC T4 CE
	DEMKO 10 ATEX 147282X
IECEx marking for Zone 2	Ex ic IIC T4 Gc
	IECEx UL 10.0004X
Standards:	EN 60079-0:2009 IEC 60079-0:2007 Ed5
	EN 60079-11:2007 IEC 60079-11:2006 Ed5
ATEX marking for Zone 22	⟨Ex⟩ II 3D Ex ic IIIC T130°C Dc X CE
Standards:	IEC 60079-0:2007 Ed5
	IEC 60079-11:2011 Ed6
UL marking	Class I Divison 2, Groups A-D, T4
	E 321557
Standards:	UL 913 Ed7
R&TTE certificate	CE 0681
Standards:	EN 60950-1:2006+A11:2009+A1:2010
- EMC	EN 301 489 V1.3.1:2005
	EN 301 489 V1.8.1:2005
- Radio	EN 301 511 V9.0.2:2003
	EN 300 440-2 V1.4.1:2011
	FCC Part 15/Class B
Richtlinien	94/9/EG 2004/108 EG 1999/5/EG

2.3.2 Technical data

Display	OLED color display
Networks	Quad Band GSM 850/900/1800/1900 MHz
Dimensions (Height x Width x Depth)	155 mm x 59 mm x 27 mm
Weight	Approx. 240 g
Rating	IP 65
Ambient temperature	-20 °C to +60 °C
Storage and transport temperature	-20 °C to +60 °C
Charging temperature	0 °C to +50 °C
Air humidity	5 % up to 95 % (non-condensing)
GSM module	Telit GE864
Power supply	Lithium polymer battery 3,7 V/2650 mAh
Interfaces	Mini USB, Bluetooth
Audio system	Microphone and speaker integrated
Antennas	Integrated in the device (GPS, GSM and Bluetooth)
Bluetooth	2.0 EDR Audio Headset profile SPP (serial protocol)

2.4 Product Marking

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Ex Logo

Only printed on the displayed Ex versions of the PEGASUS 71xx series.

PEGASUS 7110ex	PEGASUS 7120ex

Differentiation of colors

PEGASUS 7100 with grey display border	PEGASUS 7110ex with blue display border	PEGASUS 7120ex with green display border

Type label

P/N: 17-C111-1Q11/0000 $C \epsilon_{0044}$
II 2G Ex ib IIC T4
DEKRA 10 ATEX 0911055X
Ex ib IIC T4 Gb IECEx UL 10.0003X
CL I DIV 1 GP A,B,C,D T4
I.T.E.EQ. FOR USE IN HAZ LOC
INTRINSICALLY SAFE Exia
IFD: AUGUST, 2011
$-20°C \leq Tamb \leq +60°C$
MADE IN GERMANY
II 3D Ex ic IIIC T130°C Dc X $C \epsilon$
WARNING - TO PREVENT IGNITION OF
FLAMMABLE OR COMBUSTIBLE ATMOSPH.,
READ, UNDERSTAND AND ADHERE THE
USER MANUAL. CHARGE BATTERY ONLY
IN AN AREA KNOWN TO BE NON-HAZ.
USE ONLY BATT. P/N 17-C120-0010
USE ONLY APPROVED ACCESSORIES FOR
PERIPHERAL CONNECTIONS.
FCC ID: TBUPEGASUS
BARTEC GmbH
97980 BAD MERGENTHEIM
GERMANY
UL LISTED 39MG

e. g.

3 Safety and Security

i Note	This chapter contains important information on the safe and reliable use of the PEGASUS 71xx series device. Please read this chapter carefully before use!

3.1 Notes of Handling

The device is factory-sealed. Do not open it!
The device may be opened in the factory only!

Exception: Battery cover and interface cup for Micro SD card, SIM card, Hard shutdown and Mini USB interface.

! Danger!	Protect the device from impact effects! Do not expose the equipment to corrosive/ aggressive liquids, vapors or mist! Take the equipment out of the hazardous area immediately if it malfunctions or if the enclosure is damaged and bring it into the safe area to put it out of operation!

! Caution!	- Do not open, charge and change the devices and do not exchange any data in the hazardous area! - The device must be protected from shock effects. - The user may not make any alterations to the device. Do not exchange or replace components and do not retrofit any components on internal plug connectors or slots. If components other than those specified are used, the protection against explosions can no longer be assured. **Exception:** SIM card, Micro SD card and battery cover (see chapter 4). - Remove the display protection of the PEGASUS before use in hazardous location. - Take the device out of the hazardous areas before wiping it with a dry cloth or cleaning it! - Avoid the influence of heat that is higher or lower than the specified temperature range. - General statutory regulations or directives on safety at work, accident prevention regulations and environmental protection legislation must be complied with, e.g. Ordinance on industrial health and safety (BetrSichV) or the national ordinances.

3.2   Accessories Safety

Only accessories approved by BARTEC may be used for charging and data communication.

17-C1Z0-0010	Lithium polymer battery 3,7 V / 2650 mAh
	for 17-C111-…. and B7-C211-….
G7-C0Z0-0002	Lithium polymer battery 3,7 V / 2650 mAh
	for G7-C011-….
17-C1Z0-0002	Charging cable
17-C1Z0-0003	USB data cable
17-C1Z0-0004	Leather holster
17-C1Z0-0005	Desktop charger
17-C1Z0-0006	Car mount with battery charger
17-C1Z0-0007	Micro SD card with 1 GB
17-C1Z0-0008	Micro SD card with 2 GB

Danger!

The use of imitation accessories or accessories from other manufacturers will render the type of ignition protection ineffective and there will be a risk of fire or explosion.

3.3   Battery Safety

Danger!

- The battery may be charged and replaced only in areas known to be non-hazardous and only by qualified personnel, who are authorised and have been trained to assemble electrical components in hazardous (potentially explosive) areas.

- For charging and communication, use only the BARTEC equipment specified in the chapter 8.

- For operation, use only original batteries of the type 17-C1Z0-0010 and G7-C0Z0-0002 with 3.7 V/2650 mAh.

- The lithium-polymer battery assembly is not protected against mechanical stress when outside the enclosure. Servicing and replacement of the battery assembly must be done by a trained technician.

- Incorrect handling can cause the battery to become hot, burst or ignite and cause serious injuries!

- The battery used in this device may present a risk of fire or explosion when heated above 100 °C (212 °F) or incinerated.

- Do not disassemble the battery or throw it into a fire.

- Defective batteries must be disposed of immediately and in compliance with the applicable regulations.

- Keep away from children!

3.4 Exposure to RF energy

There has been some public concern about possible health effects of using a GSM modem. Although research on health effects from RF energy has focused for many years on the current RF technology, scientists have begun research on newer radio technologies, such as GSM. After reviewing existing research and testing compliance with all applicable safety standards, it has been concluded that the product is fit for use.

If you are concerned about exposure to RF energy, there are things you can do to minimize exposure. Obviously, limiting the duration of your calls will reduce your exposure to RF energy. In addition, you can reduce RF exposure by operating your cellular modem efficiently by following the guidelines below.

3.5 Driving

Check the laws and regulations on the use of cellular devices in the area where you drive. Always obey them. Also, when using your PEGASUS 71xx series while driving, please pay full attention to driving, pull off the road and park before making or answering a call if driving conditions so require. When applications are prepared for mobile use, they should comply with road-safety rules under applicable laws!

3.6 Electronic devices

Most electronic equipment, for example in hospitals and motor vehicles is shielded from RF energy. However, RF energy may have adverse affects on the functioning of insufficiently shielded or defective electronic devices.

3.7 Vehicle electronic equipment

Check with your vehicle manufacturer's representative to determine if all on-board electronic equipment is adequately shielded from RF energy.

3.8 Medical electronic equipment

Consult the manufacturer of any personal medical devices (such as pacemakers, hearing aids, etc.) to determine if they are adequately shielded from external RF energy.

Turn your PEGASUS 71xx series device OFF in health care facilities when any regulations posted in the area instruct you to do so. Hospitals or health care facilities may be using RF monitoring equipment

3.9 Aircraft

Turn your PEGASUS 71xx series OFF before boarding any aircraft. Use it on the ground only with crew permission. Do not use it in the air. To prevent possible interference with aircraft systems, Federal Aviation Administration (FAA) regulations require you to have permission from a crewmember to use your modem while the plane is on the ground. To prevent interference with cellular systems, local RF regulations prohibit the use of your modem whilst airborne.

3.10 Blasting areas

To avoid interfering with blasting operations, turn your device OFF when in a "blasting area" or in areas posted: "turn off two-way radio". Construction crews often use remote control RF devices to set off explosives.

3.11 Potentially explosive atmospheres

Turn your PEGASUS 7000 series device OFF when in any area with a potentially explosive atmosphere.

➡ PEGASUS 7100 is intended for use in industrial environment

➡ PEGASUS 7110^{ex} is intended for use in hazardous locations
(ATEX Zone 1 and 22; IECEx Zone 1; Class I Division 1)

➡ PEGASUS 7120^{ex} is intended for use in hazardous locations
(ATEX Zone 2 and 22; IECEx Zone 2; Class I Division 2)

3.12 Safety Standards

Your GSM/GPRS/GPS device complies with all applicable RF safety standards. PEGASUS 71xx series meets the safety standards for RF receivers and the standards and recommendations for the protection of public exposure to RF electromagnetic energy established by government bodies and professional organizations, such as directives of the European Community, Directorate General V in matters of radio frequency electromagnetic energy.

3.13 RF Exposures

This device contains 850/900/1800/1900 MHz GSM/GPRS functions that are operational in these frequencies respectively. The PEGASUS 71xx series device contains 1800 MHz GSM functions that are not operational (must not be used) in U.S. Territories.

Filing is only applicable for 850MHz GSM/1900 MHz PCS operations, whereby only these frequencies (850 MHz GSM/1900 MHz PCS) may be used in U.S. Territories.

Statement according to FCC part 15.19:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

➡ this device may not cause harmful interference, and

➡ this device must accept any interference received, including interference that may cause undesired operation.

Statement according to FCC part 15.21:

Modifications not expressly approved by this company could void the user's authority to operate the equipment.

Statement according to FCC part 15.105:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

➡ Reorient or relocate the receiving antenna.

➡ Increase the distance between the equipment and receiver.

➡ Plug the equipment into an outlet on a circuit different from that to which the receiver is connected.

➡ Consult the dealer or an experienced radio/TV technician for help.

3.14   Statement of the UL

The statement "Underwriters Laboratories Inc. (UL) has not tested the performance or reliability of the Global Positioning System (GPS) hardware, GPS operating software or other GPS-related aspects of this product. UL has only tested for the explosion, fire, shock and casualty hazards required by the applicable hazardous locations standards. UL certification does not cover the performance or reliability of the GPS hardware, GPS operating software or other GPS-related aspects of this product. UL MAKES NO REPRESENTATIONS, WARRANTIES OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY GPS RELATED FUNCTIONS OF THIS PRODUCT."

4   Commissioning

4.1   Scope of delivery

Before commissioning the devices, check that all components and documents are there:

PEGASUS 71xx Mobile Phone

Lithium Polymer Battery

Charger cable with four different adapters
Adapters for Europe, Great Britain, the USA and Australia.

USB-data cable

Torx nut driver

CD-ROM
(User manual, phonebook software, USB driver)

Safety instructions

Technical data subject to change without notice.
09-2011

4.2 Functional Parts of the device

Figure 3: PEGASUS 7110ex front side

(1)	$\langle Ex \rangle$ Logo only on PEGASUS 7110ex and 7120ex
(2)	Left soft key (to call or OK)
(3)	2-way navigation key
(4)	Keypad
(5)	Power ON / OFF (for OFF press button 3 sec.)
(6)	Speaker
(7)	Screen
(8)	Right soft key (to hang up or back)
(9)	Microphone
(10)	Emergency call button
(11)	Interface cup (Mini USB interface, SIM card slot, Micro SD card slot, Hard shutdown)

①	Screw for fastening the belt clip (type K20x8 WN5452-Torx-1)
②	Belt clip
③	Battery cover
④	Type label

Figure 4: PEGASUS 71xxex rear side

①	Micro SD card slot
②	SIM card slot
③	Hard shutdown
④	Mini USB interface

Figure 5: Interface slots
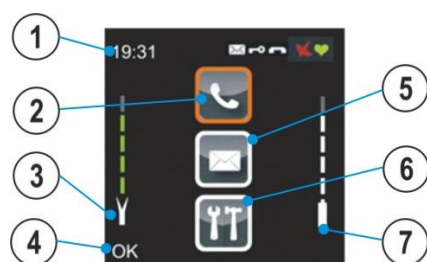
①	Clock
②	Phone settings
③	Signal strength level (5 bars) White bars: GSM Green bars: GSM+GPRS
④	OK for the left soft key
⑤	SMS settings
⑥	General settings
⑦	Battery strength level (5 bars)

Figure 6: PEGASUS 71xx start screen

Additional display symbols:

From left to right:

SMS Message, keypad locked, call while absence, satellite, man-down

4.3   Fastening and Changing the Belt Clip

⚠️
Danger!

The belt clip may only be fastened or changed outside the hazardous area!

➡️ Put the belt clip into the slot of the back of the PEGASUS 71xx

Slot for belt clip

➡️ Turn the belt clip in position as shown.

➡️ Tighten the screw with the torx nut driver to fix the belt clip.

Fixing screw

ℹ️
Note

The PEGASUS may be used only with a securely attached belt clip and closed battery compartment cover (belt clip closes the battery compartment)!

4.4 Inserting and Changing the Battery

⚠️
Danger!

The battery may be charged and replaced only in non-hazardous areas. Use only the Bartec devices specified in the "Accessories" chapter for charging and communication.

➡ Turn your PEGASUS OFF before you change the battery!

➡ Loosen the screw with the torx nut driver on the belt clip.

➡ Lift the battery cover off at the marked position.

Lift/open battery cover here.

➡ Take the battery out of or insert it into the battery compartment.

Battery contact   Connector for battery contact

➡ Hook in the cover flap.

➡ Put on the battery compartment cover.

➡ Close the battery compartment cover until the cover latches into place.

Interface cup

➡ Use the screw to fix the belt clip in place.

ℹ️ **Note**	The PEGASUS may be used only with a securely attached belt clip and closed battery compartment cover (belt clip closes the battery compartment)!

4.5 Charging the Battery

⚠️ **Danger!**	The battery may only be charged with listed chargers outside the hazardous area!

ℹ️ **Note**	The battery is not fully charged on delivery. Charge the battery for approx 9-10 h before first use.

➡ Open the cover to access the connections.
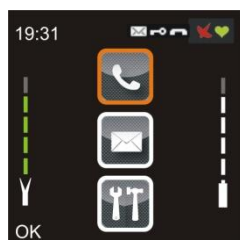
➡ Connect the charger cable to the mini USB slot.

Charging contacts for desktop charger

USB port

ℹ️ **Note**	The Pegasus can not be charged via the USB data cable.

➡ The charging status of the battery is shown on the right side of the screen.

All bars are green when battery is fully charged.

Battery symbol is red if battery is to low.

➡ After charging, remove the charging cable and close the cover.

Desktop charger (optional accessory)

➡ The device does have separate charging contacts. For permanent use we recommend the use of the PEGASUS desktop charger (optional accessory).

4.5.1 Stand-by time

Mode	Stand-by time
Man-down OFF; Online tracking OFF	approx. 65-70 h
Man-down ON; Online tracking OFF	approx. 22-24 h
Man-down OFF; Online tracking ON	approx. 22-24 h
Man-down ON; Online tracking ON	approx. 22-24 h

4.5.2 Talk time

➡ approx 4-6 h

4.5.3 Charging time

➡ approx 5-6 h
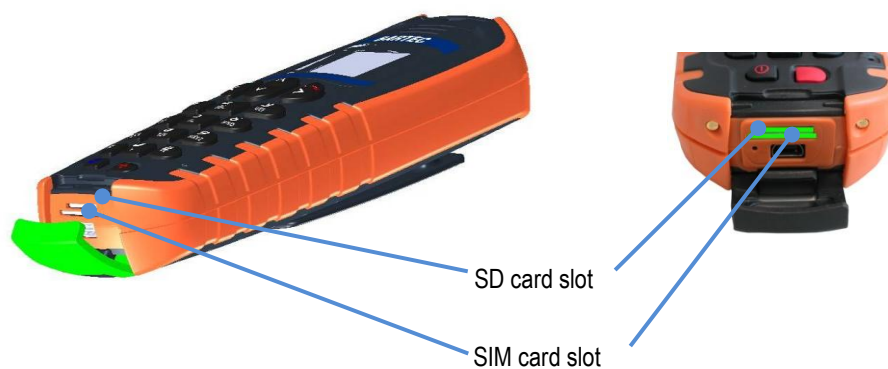
4.6 Inserting the Micro SD-card

⚠️ **Danger!**	The Micro SD card and SIM card may only be inserted or changed outside the hazardous area!

➡️ Turn your PEGASUS OFF.

➡️ Open the cover to access the connections.

➡️ Insert the micro SD-card or SIM card into the slot.

➡️ Close the cover.

SD card slot

SIM card slot

5   Operation

ⓘ
Note

SIM cards, not included in the scope of delivery of the device, are needed for using the acquired devices. The SIM cards can be obtained e.g. from specific providers. The use of the SIM cards can result in additional costs, which must be borne by the purchaser (customer) of the devices. The seller does not cover the extra costs involved in using the devices. The seller gives no recommendation on the use of specific SIM cards and does not give any assurance either that the devices will be usable with all available SIM cards. The seller will not cover any other costs incurred when this device is used in a customer's application.

5.1   Getting started

⚠
Caution!

Remove the display protection of the PEGASUS before use in hazardous location.

➡ Switch on the Mobile Phone PEGASUS by pressing the Power ON/OFF key.

➡ The starting screen appears after approximately 5 seconds.

➡ When you switch on your phone for the first time, you must configure it with various settings that will remain by default until you choose to modify them.

➡ After entering the PIN number, you may wish to select the following settings: ring tone, volume, time/date, vibration and, depending on the configuration, the man-down function and on-line tracking.

5.1.1   PIN number

This is a secret code for the SIM card. If access to the SIM card is protected, the device prompts you to enter the PIN number. Enter the 4-digit PIN or customized code and confirm it with OK.

For security reasons these digits will not appear on the screen.

If the PIN number is not accepted or the card is not recognised, turn the PEGASUS Off and check that the SIM card is inserted correctly in your PEGASUS.

If an incorrect PIN number is entered three times in succession, your SIM card will be blocked. In this case you must do the following:

➡ Enter the PUK code provided by your operator.

➡ Enter your PIN number and validate the entry.

➡ Enter your PIN number again and validate the entry.

After 5 or 10 failed attempts, depending of the type of your SIM card, the SIM card will be irrevocably locked. In this case you must contact your operator or provider to obtain a new card.
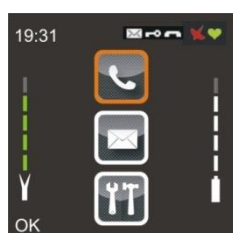
5.1.2 Navigation Principle

Only 3 keys are needed to navigate through the different menus.

Left soft key
(to call or OK)

Right soft key
(to hang up or back)

2-way navigation key

The 2-way navigation key is for the selection of a menu entry.

The left soft key is used to go from a menu to a sub-menu.

The right soft key is used to go from a sub-menu to a higher-level menu.

5.1.3 General Settings
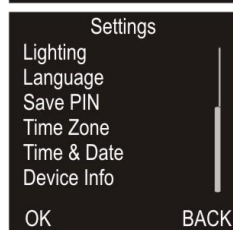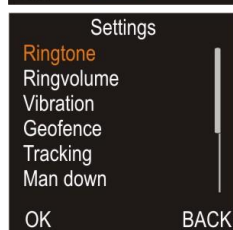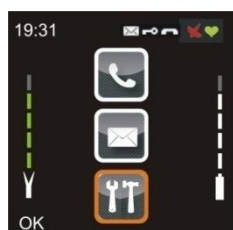
Select a menu.

Choose the setting menu.

Enter the menu for customising your PEGASUS 71xx.

Different menus are available for customising your PEGASUS 71xx.

Select a menu.

Enter a menu.

Exit the sub-menu.

5.1.4 Ringtone

Select a **"Ringtone"**.

"OK" Confirm the setting.

"BACK" Exit the sub-menu.

5.1.5 Ringvolume

Ringvolume

OK   BACK
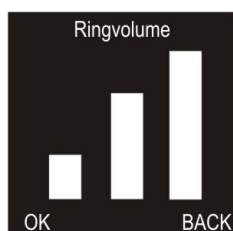
Change the **"Ringvolume"**

loud
low

"BACK" Exit the sub-menu.

5.1.6 Vibration

Vibration
● ON
○ OFF

OK   BACK
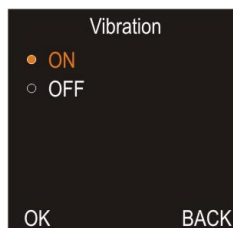
"Vibration" ON or OFF.

"OK" Confirm the setting.

"BACK" Exit the sub-menu.

5.1.7 Geofence

Geofence
● ON
○ OFF

OK   BACK

"Geofence" ON or OFF.

"OK" Confirm the setting.

"BACK" Exit the sub-menu.

5.1.8 Tracking

Tracking
● ON
○ OFF

OK   BACK
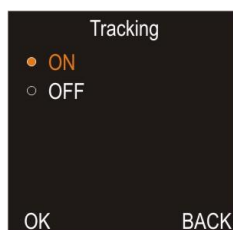
"Tracking" ON or OFF.

"OK" Confirm the setting.

"BACK" Exit the sub-menu.

19:31

OK
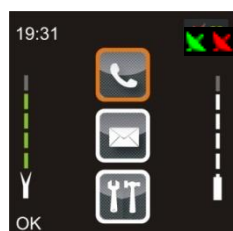
GPS satellite symbol

Green GPS ON (3+n satellites)

Red GPS signal to low
(no satellites or < 3 satellites)

PEGASUS models without tracking/geofence and man-down function do not display this function in the general settings!

The "tracking" and "geofence" functions are available only in the supported models.

Note

Special tracking software and a licence agreement are needed!

If the "tracking" or "geofence" function is switched on, the device is connected to the server through the GPRS/TCP as soon as the GSM bars are green.

Further settings are required for the network provider (see chapter 6.7)

5.1.9   Man-Down

"Man-down" ON or OFF.

"OK"   Confirm the setting.

"BACK"   Exit the sub-menu.

The man-down function (motion detection) is available only in supported models.

The man-down function can be activated or deactivated only if the settings (e.g. man-down number etc.) are made with the separate phonebook software.

Note

The man-down alarm is deactivated if the PEGASUS is connected to the charging cable or to the desktop charger. See chapter 6 for further important information on the man-down function.
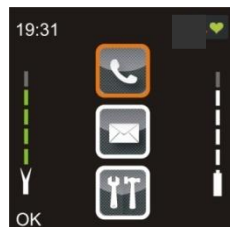
Man-down symbol
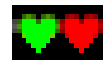
Green   Man-down ON

Red   Man-down Error (no GSM signal or battery to low) + interval beep tone and vibration.

Note

GPS signal is not monitored.
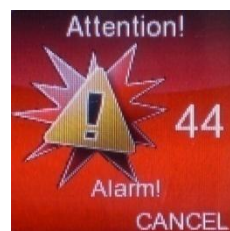
Man-down display message

After man-down is triggered the pre-alarm countdown display appears. After countdown the call starts automatically.

Note

The pre-alarm is canceled automatically when the PEGASUS moved again.

5.1.10 Lighting (keypad)

```
      Lighting
 ●  ON
 ○  OFF




 OK            BACK
```

"**Lighting**" ON or OFF.

"**OK**"   Confirm the setting.

"**BACK**" Exit the sub-menu.

ℹ️
Note

By pressing any button the lighting goes on. After 5 seconds the lighting goes off, if no button is pressed.

5.1.11 Language

```
      Language
 ●  English
 ○  Francais
 ○  Espanol
 ○  Deutsch
 ○  Portuguese
 ○  Svenska
 OK            BACK
```

Select the "**Language**".

"**OK**"   Confirm the setting.

"**BACK**" Exit the sub-menu.

**11 languages are currently available:**

```
      Language
 ●  English
 ○  Francais
 ○  Espanol
 ○  Deutsch
 ○  Portuguese
 ○  Svenska
 OK            BACK
```

- Chinese   - Portuguese
- German   - Russian
- English   - Spanish
- French   - Swedish
- Italian   - Hungarian
- Dutch   - Czech

5.1.12 Save PIN (SIM card)

```
      Save PIN
 ●  ON
 ○  OFF




 OK            BACK
```
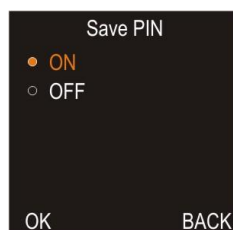
"**Save PIN**" On or OFF.

"**OK**"   Confirm the setting.

"**BACK**" Exit the sub-menu.

5.1.13 Setting Time Zone

```
      Time zone
 ○  UTC -2
 ○  UTC -1
 ○  UTC
 ○  UTC +1
 ●  UTC +2
 ○  UTC +3
 OK            BACK
```

Select the "**Time zone**".

"**OK**"   Confirm the setting.

"**BACK**" Exit the sub-menu.

5.1.14 Setting Time & Date

Time & Date

19:31:00
30.08.2010

OK   BACK

Select and adjust **"Time"** and **"Date".**

"OK"   Confirm the setting.

"BACK" Exit the sub-menu.

5.1.15 Device Info

Device
PEGASUS 70x0-x
Firmware version
x.x.x
IMEI/SN
XXXXXXXXXXXXXX
XXXXXXXXXXXXXX

BACK

Device: PEGASUS model
Firmware Version: Currently used version
IMEI/SN: IMEI and serial number
                     (IMEI number is needed if the
                     online tracking option is
                     required)

"BACK" Exit the sub-menu.

5.1.16 Key lock

Keypad locked ...
Press red phone
and * to unlock
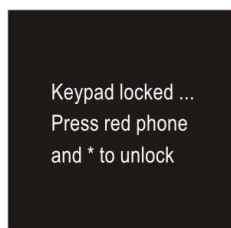
When the device is locked and you press a key, following screen message appears.

Unlocking:

You can unlock the keypad with keypad shortcuts.

Unlock keypad

If no key is pressed for longer than 3 minutes, the keypad will locked again automatically.

Manual locking:

To lock the keypad before the time is elapsed, press ON/OFF button for 1 second.

5.2　Phone settings

	Select the **"Phone"** menu.
"OK"	Enter the menu.
	Select the **"Phone"** menu.
"OK"	For further actions.
"BACK"	Exit the sub-menu.

5.2.1　Making a call

You have different options to establish a call:

➡　Start dial from the start screen.

➡　Start dial from the menu Phone select.

➡　Dial a number from the Phonebook or the SIM card.

5.2.2　Starting dialing from the start screen

Begin to dial the number when you are in the start screen.

	Starts the dialling process.
	Cancel or stop the call.

5.2.3　Starting dialing from the "Select" menu
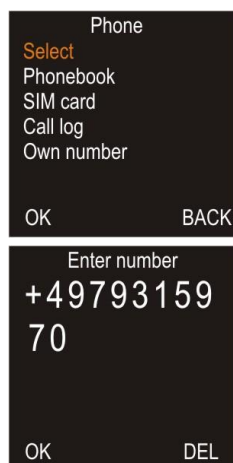
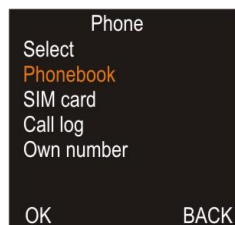|	
"Select"	Option select.
"OK"	For further actions.
"BACK"	Exit the sub-menu.
"Enter number"	Enter the telephone number you wish.
"OK"	Start the dialling process.
"DEL"	Delete the entry.

5.2.4 Dialing a number from "Phonebook" menu

i Note	Phonebook list must be defined first via the separate Phonebook Software. Max 100 phone number entries can be created.

```
        Phone
Select
Phonebook
SIM card
Call log
Own number


OK              BACK
```

Select **"Phonebook"**.

"OK"   Show entries in the phonebook.

"BACK"   Exit the sub-menu.

```
       Phonebook
BARTEC
XXX
YYY
ZZZ
...
...
MENU            BACK
```

"MENÜ"   Shows the sub-menu for the contact.

i Note	There is an option of using the alphanumeric keypad to enter the first letter of the contact's name.

Select a contact in your Phonebook.
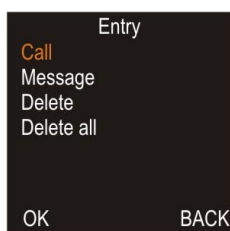
```
        Entry
Call
Message
Delete
Delete all



OK              BACK
```

"Call"   Start the dialling process.

"Message"   Write the message to the contact.

"Delete"   Delete the phonebook entry.

"Delete all" Delete all phonebook entries.

"OK"   For further actions.

"BACK"   Exit the sub-menu.

5.2.5 Dialing a number from "SIM card" menu
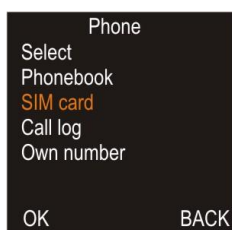
```
        Phone
Select
Phonebook
SIM card
Call log
Own number


OK              BACK
```

Select the SIM card phone numbers

"OK"   Shows the telephone numbers on the **"SIM card".**

"BACK"   Enter the sub-menu.

5.2.6 Call log

```
          Phone
Select
Phonebook
SIM card
Call log
Own number


OK              BACK
```
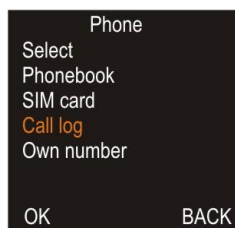
Select the **"Call log"** menu.

"OK"   Displays the last calls.

"BACK"   Exit the sub-menu.

5.2.7 Own number

```
          Phone
Select
Phonebook
SIM card
Call log
Own number


OK              BACK
```
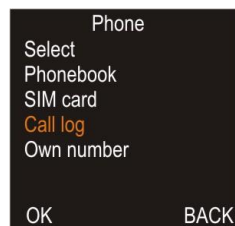
Displaying the **"Own number"**.

i
Note   Your own number can be entered through the separate phonebook software.

5.3 SMS (Short Message Service) Settings

5.3.1 SMS Options
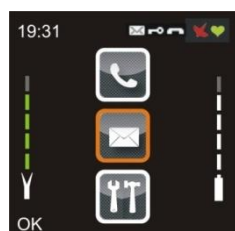
Select the **"Message"** menu.

Enter the menu.

Select your option.

Enter the sub-menu.

5.3.2 New message

```
        Messages
New message
Inbox
Outbox
Drafts


OK              BACK
```
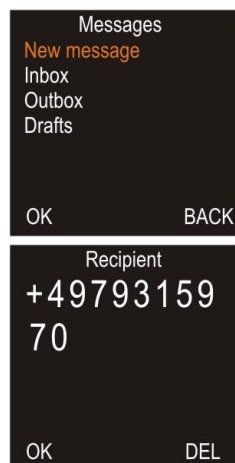
Select the **"New message"** menu.

"OK"   Write a text message.

"BACK"   Exit the sub-menu.

```
        Recipient
+49793159
70



OK              DEL
```

Enter the number of the receiver

"OK"   Write a text message.

"DEL"   Change or delete the input and switch to the sub-menu.

```
Text 47/160          abc
Abcdefghijklmno
pqrstuvwxyz
0123456789
!"§§$%&/()=?


MENU              DEL
```

```
      Messages
Send
As Draft




OK               BACK
```

Enter the text in the field

Press key # to select charater type (abc, Abc, ABC,123, Pos).

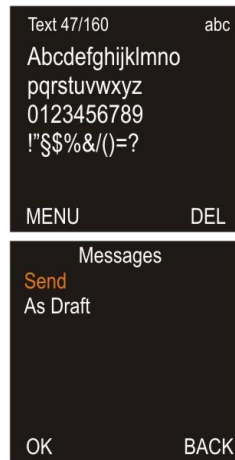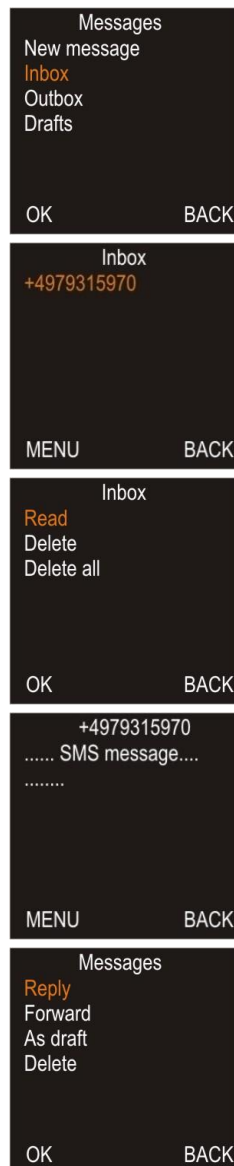|	
"MENU"	Send a text message.
"DEL"	Delete the entered last character. Press the key longer than 3 sec. to delete all characters.
"Send"	SMS will be sent out to recipient.
"As Draft"	SMS will be saved as draft.

5.3.3   Inbox

```
     Messages
New message
Inbox
Outbox
Drafts


OK               BACK
```

```
       Inbox
+4979315970




MENU             BACK
```

```
       Inbox
Read
Delete
Delete all



OK               BACK
```

```
   +4979315970
...... SMS message....
........




MENU             BACK
```

```
     Messages
Reply
Forward
As draft
Delete


OK               BACK
```

Received messages are stored in the **"Inbox"** menu (max. 40 messages).

"Inbox"	Select menu **"Inbox"** to show received SMS.
"OK"	Select SMS
"**BACK**"	Exit the sub-menu.

Select message.

"MENU"	Select SMS.
"Read"	Read SMS.
"Delete"	Delete selected SMS.
"Delete all"	Delete all SMS.
"OK"	Confirm the setting.
"BACK"	Exit the sub-menu.

MENU for further actions.

"Reply"	Reply to a message.
"Forward"	Send message to a new recipient.
"As draft"	Safe message in draft folder.
"Delete"	Delete message.
"OK"	Confirm the setting.
"BACK"	Exit the sub-menu.

5.3.4   Outbox

```
        Messages
New message
Inbox
Outbox
Drafts


OK              BACK
```

```
        Outbox
+4979315970




MENU            BACK
```

```
        Outbox
Read
Delete
Delete all



OK              BACK
```

```
        Outbox
+4979315970




MENU            BACK
```

```
       Messages
Forward
As draft
Delete
Next message


OK              BACK
```

Outgoing messages will be stored in **"Outbox"** (max. 10 messages).

"Outbox"	Select **"Outbox"** menu to view sent text messages.
"OK"	Select SMS.
"BACK"	Exit the sub-menu.

Select message.

"MENU"	Read SMS
"Read"	Read SMS.
"Delete"	Delete selected SMS.
"Delete all"	Delete all SMS.
"OK"	Confirm the setting.
"BACK"	Exit the sub-menu.

MENU for further actions.

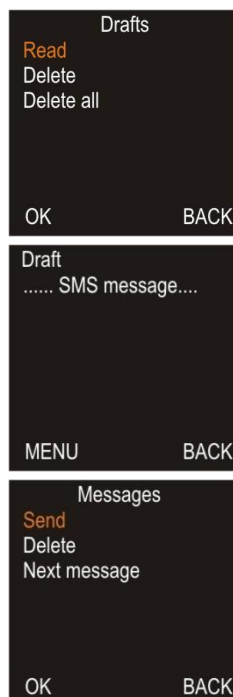|	
"Forward"	Send SMS forward to new recipient.
"As draft"	Save text messages in draft folder.
"Delete"	Delete SMS.
"Next message"	Open next SMS.
"OK"	Confirm the setting.
"BACK"	Exit the sub-menu.

5.3.5   Drafts

```
        Messages
New message
Inbox
Outbox
Drafts


OK              BACK
```

```
         Drafts
1....SMS message....
2....SMS message....
3....SMS message....
4....SMS message....
5....SMS message....

MENU            BACK
```

SMS messages can be stored in the draft folder.

Up to 10 messages can be stored.

"OK"	Confirm the setting.
"BACK"	Exit the sub-menu.

Read drafts.

"MENU"	Read SMS.
"Read"	Read SMS.
"Delete"	Delete selected SMS.
"Delete all"	Delete all SMS.
"Read"	Read SMS.
"OK"	Confirm the setting.
"BACK"	Exit the sub-menu.
"MENU"	For further actions.
"Send"	Send SMS forward to new recipient.
"Delete"	Delete SMS.
"Next message"	Open next draft SMS.
"OK"	Confirm the setting.
"BACK"	Exit the sub-menu.

5.4 Emergency Call Button

5.4.1 Operation
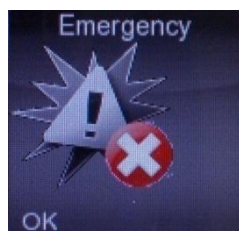
Press red bottom for 3 seconds to start
Emergency call.

Note Emergency call function can be activated only if the number is defined via the separate phonebook software.

Before the emergency call connection is made, a countdown of 10 seconds allows time to cancel the call.

After countdown the call starts automatically.

If no emergency call number was defined, a message to that effect appears.

5.5 Bluetooth

5.5.1 General Points

With the aid of Bluetooth, the PEGASUS 71xx series can produce a wireless connection to devices located within a radius of 10 metres.
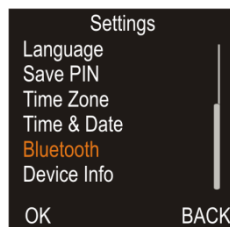
The PEGASUS 71xx series is compatible with the Bluetooth Specification 2.0 EDR and supports headsets and serial ports.

i **Note**   The Bluetooth technology functions can be restricted in some environments!

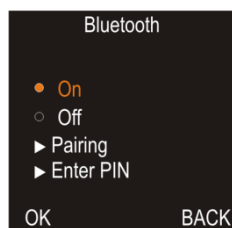### 5.5.2 Activating the Bluetooth

Select the menu for settings.

Settings
Language
Save PIN
Time Zone
Time & Date
Bluetooth
Device Info
OK   BACK

Call up the menu

Select the Bluetooth option.

Call up the sub-menu.

Bluetooth

● On
○ Off
▶ Pairing
▶ Enter PIN

OK   BACK
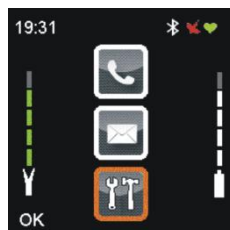
Select the settings.

"OK"   Confirm the settings.

"BACK"   Exit sub-menu.
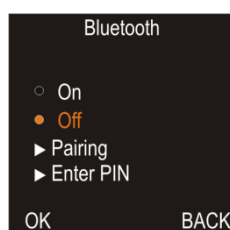
19:31   ∗ ✕ ♥

OK

If the Bluetooth function is active, a white Bluetooth symbol appears in the display.

i **Note**   The Bluetooth function should be switched off as soon as it is no longer required.
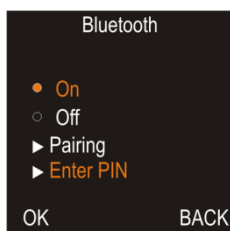
Bluetooth

○ On
● Off
▶ Pairing
▶ Enter PIN

OK   BACK

Select settings.

"OK"   Confirm settings

5.5.3 Pairing with a Device

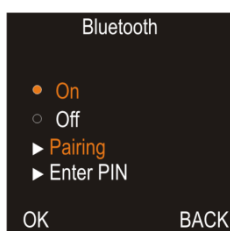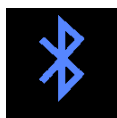|		
Bluetooth ● On ○ Off ▶ Pairing ▶ Enter PIN OK　　　　BACK	[up/down buttons]	Select "**Enter PIN**". "**OK**"　　Call up the sub-menu.
PIN ★★★★ OK　　　　Del		"**OK**"　　Confirm PIN.
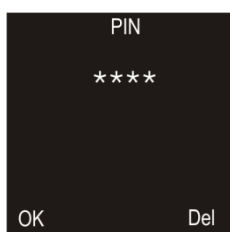
Note

Entering the PIN code prevents unauthorised access by other devices.
To pair with another device, enter the other device's PIN code.
The last used PIN is always saved.

Bluetooth ● On ○ Off ▶ Pairing ▶ Enter PIN OK　　　　BACK	[up/down buttons]	Select "**Pairing**". "**OK**"　　Devices are paired.
19:31　　　★✖♥ [phone icon] [message icon] [tools icon] OK	[Bluetooth symbol]	Once a Bluetooth is paired with another device, the displayed Bluetooth symbol appears in blue.
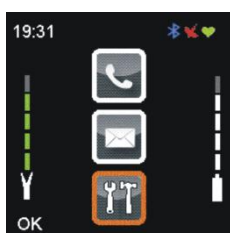
6　Phonebook Software Installation

6.1　Requirements

Minimum hardware requirements:

- - 1 GHz processor
- - 512 MByte memory
- - Graphic resolution: 1024x768 pixel
- - Mouse, keyboard

Recommended:

- - 1 GHz Processor
- - 1024 MByte memory
- - Graphic resolution: 1024x768 pixel
- - Mouse, keyboard

Software requirements

- - Supported operation system Windows XP, Windows Vista, Windows 7 (32 bit version)

6.2　Installation

➡ Put the provided PEGASUS CD ROM into your CD ROM drive.

➡ Open the PEGASUS Phonebook folder and start the Setup.exe.

➡ The installation will start automatically.

➡ Use the original USB cable to connect the PEGASUS to the USB port on the computer. (The PEGASUS must be switched on and may not be in suspend mode ⇨ press any key to turn on).

➡ Install the provided USB driver from the CD ROM.

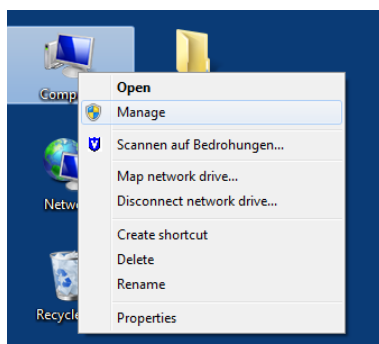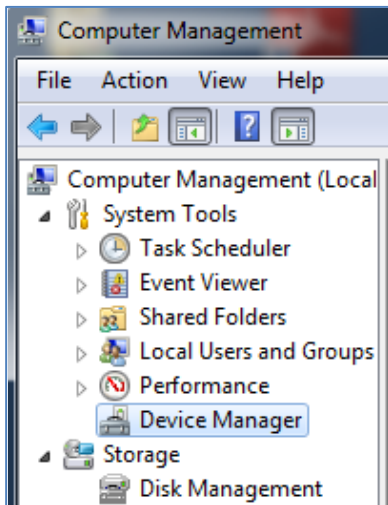| ⓘ Note	Previously installed phonebook software must be uninstalled first.

6.2.1　Installation USB-Treiber for Windows 7 (32 bit version)

➡ With right mouse click on the icon "Computer". By clicking the mouse left click "Manage".

➡ With left mouse click to "Device Manager".

➡ Connect the PEGASUS with the original USB cable to the USB port on the computer.

➡ The directory "USB Serial Emulator" is displayed.

➡ Left mouse click on "USB Serial Emulator" in the device list.
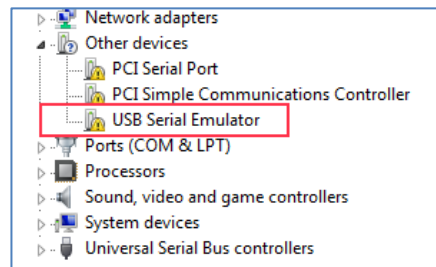
➡ The dialog box "USB Serial Emulator Properties" opens.

➡ Select "Driver" tab.

➡ Select buttom "Driver update".
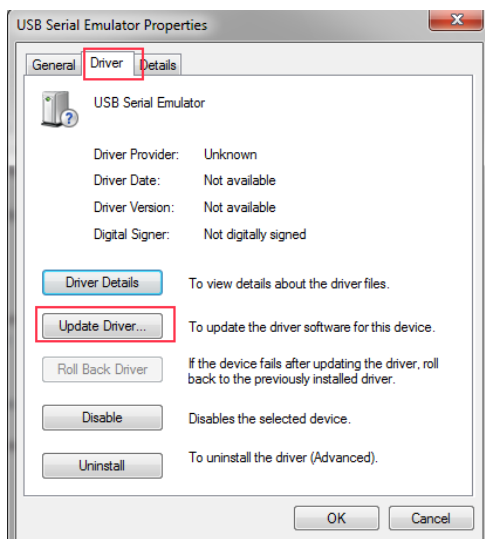
➡ Click on "Browse my computer for driver software ".
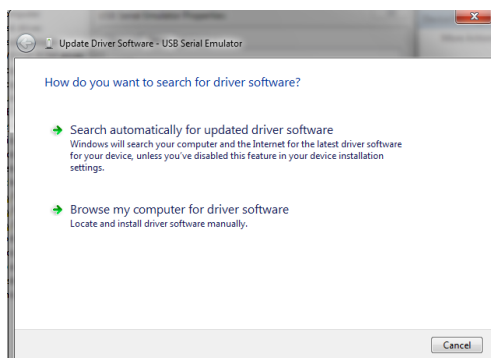
➡ Put the PEGASUS CD in the CD drive and select the folder "driver".
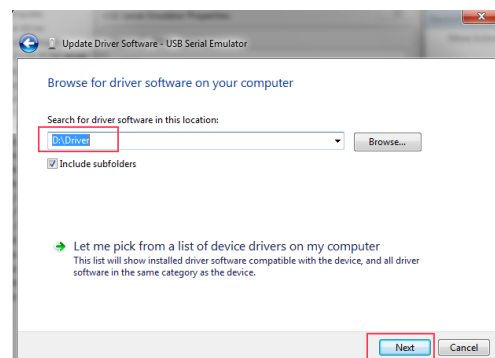
➡ Start Installation with "Install driver software anyway".

➡ After installation, close the dialog box.
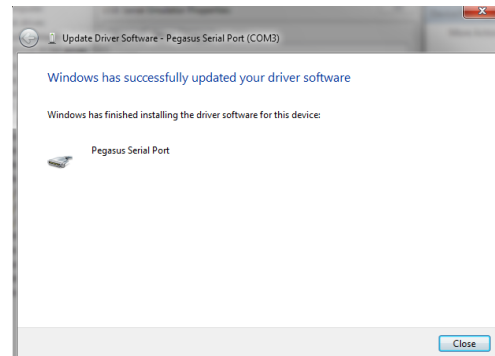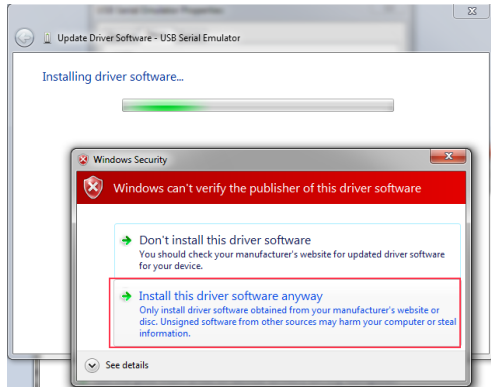
➡ After successful installation, the PEGASUS will be displayed in the device list.
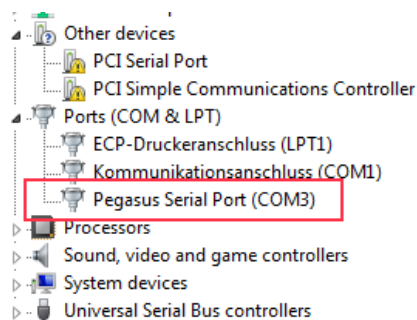
6.3 Connection to PEGASUS

👉 **Attention!** Use only the original BARTEC USB cable to connect the PEGASUS device to your computer!

6.4 Start Software

(1) Start software with icon on the desktop.

(2) Next step "Menu Settings"

6.5 Menu Settings
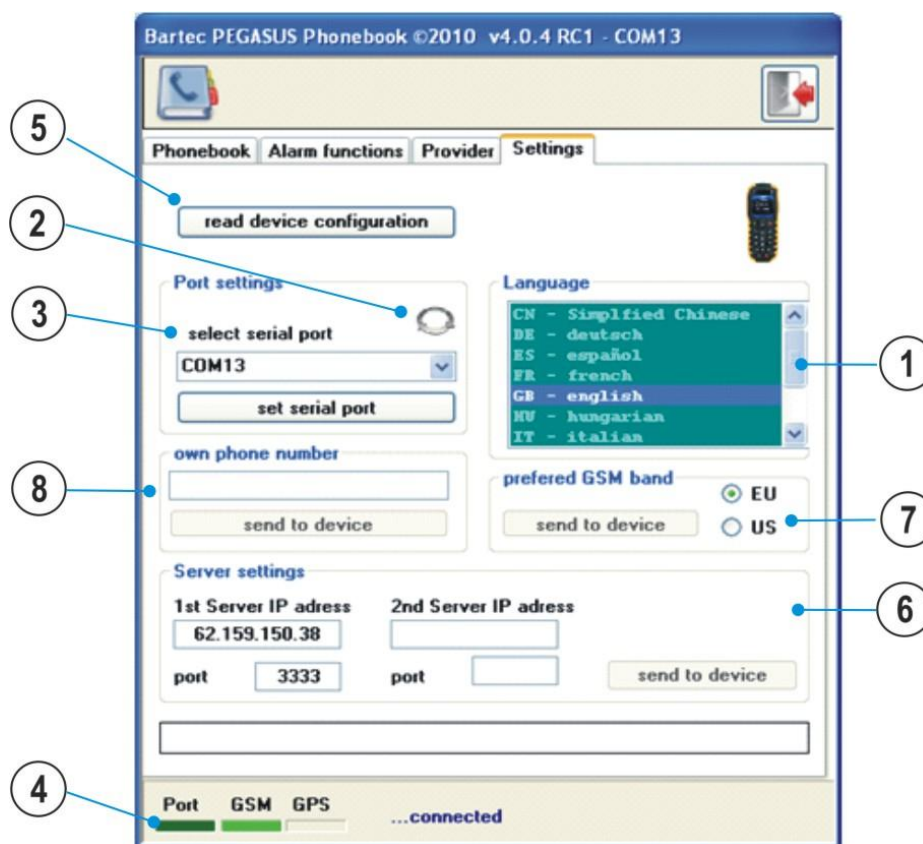
①

➡️ Set the required language in the **"language"** field.

11 languages are currently available.

CN	Chinese	FR	French	IT	Italian	RU	Russian
DE	German	GB	English	NL	Dutch	SV	Swedisch
ES	Spanish	HU	Hungarian	P	Portuguese	CZ	Czech

②

➡️ **Manual interface recognition**

Start the automatic USB connection recognition in the **"interface"** field with .

Follow the invitation .

Use the original USB cable to connect the PEGASUS to the USB port on the computer. (The PEGASUS must be switched on and may not be in suspend mode ⇨ press any key to turn on).

③

Manual interface recognition

Use the original USB cable to connect the PEGASUS to the USB port on the computer. (The PEGASUS must be switched on and may not be in suspend mode ⇨ press any key to turn on). In the **"Interface"** field the virtual serial connection which is assigned to the USB connection and **"accept"** must be selected to produce a connection to the PEGASUS.

④

➡ Once a connection has been established successfully, the bar under **"port"** flashes green.

⑤

➡ Click on the "**Read device configuration**" button to read the current PEGASUS data into the phonebook software.

➡ Use the BARTEC original USB cable to connect the PEGASUS to the USB port on the computer (the PEGASUS must be switched on and must not be in suspend mode ⇨ press any key). In the **"Interface"** field the virtual serial connection which is assigned to the USB connection and **"accept"** must be selected to produce a connection to the PEGASUS.

⑥

➡ Use the **"Server settings"** button to enter the IP address and the port.

(Default settings in the PEGASUS: BARTEC server 62.159.150.38 port 3333)

i

Note

The **"Server settings"** field is only relevant if the PEGASUS has an online tracking function.

⑦

➡ Select the **"preferred GSM band"** in the relevant field.

To enable as fast a connection as possible to the GSM network, select the GSM band.

EU: Frequency range 900/1800 MHz

US: Frequency range 850/1900 MHz

⑧

➡ Your own call number

- Enter the telephone number for the device.

- Save by clicking on the "Accept" button.

- The number can be displayed on the device. (see chapter 5.2)

6.6 Phonebook Menu

➡ **Add phonebook entries.**

Use the **"add entry"** button to input new entries.
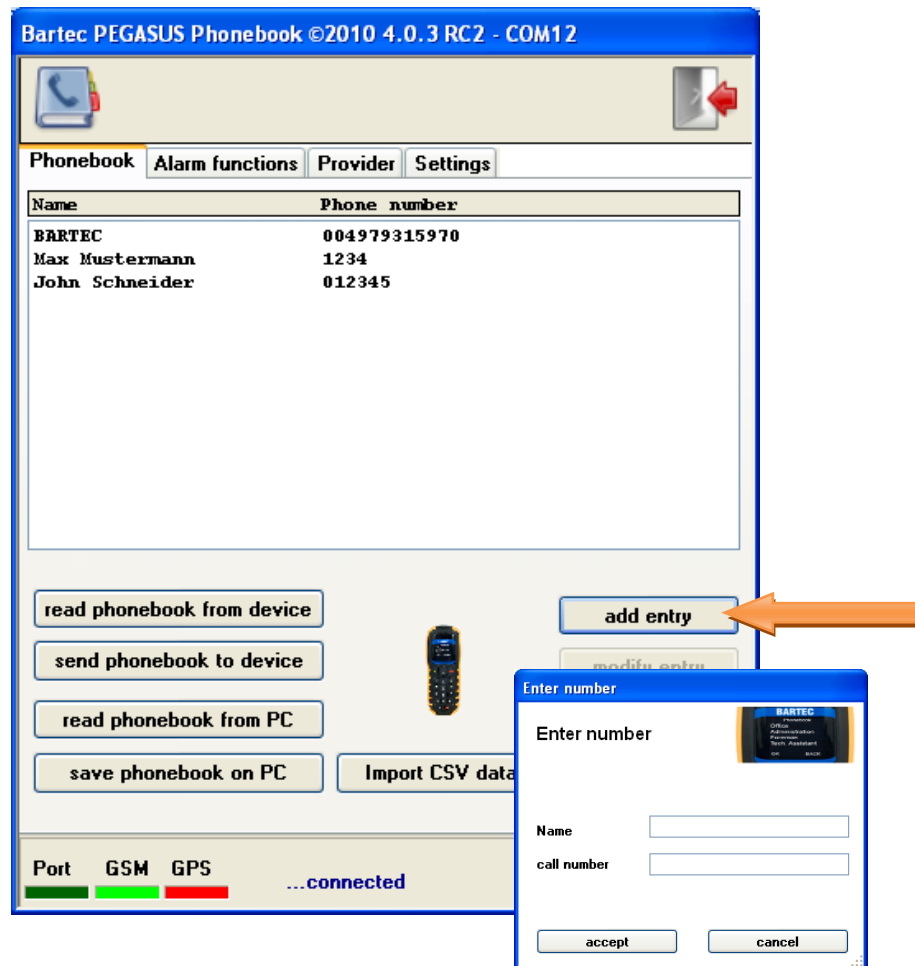
- In addition there are several options in this menu for reading and sending phonebook data.
- Up to 100 phonebooks entries are possible.

6.7 Alarm Functions Menu

This menu is designed for two different alarms

1. Emergency call
2. Man-down alarm

> ℹ️
> **Note**
>
> The **"Man-down numbers"** field is only applicable when the PEGASUS model with a **"Man-down"** option is used.

➡️ **Emergency number**

The **"add number"** button allows a number to be set up as an emergency hotline number.

When the number is entered, it is transmitted automatically to the device.

The red emergency button on the PEGASUS will dial this number. Further details on the emergency call can be found in chapter 5.4.

➡️ **Man-down**

In the **"Man-down numbers"** field you can store up to five different emergency numbers.

If only one number is recorded, the same number will be uploaded automatically five times when the "activate man-down functionality" box is ticked.

Reason:

Once the man-down countdown has expired and the alarm is triggered, the PEGASUS tries automatically to connect to the first number in the list. If the connection fails, the PEGASUS will dial the next number after 30 sec. and so on.

Alarm setting for Man-down

Reaction time:

Different time settings for the man-down reaction time can be defined in the drop-down field.

The time range is defined according to the German standards for the "radio staff protection system for Lone Workers".

The reaction time will be displayed on the PEGASUS as a countdown screen.

Man-down notification

The man-down alarm can be adjusted in three different notification modes.

- Call
- Call and SMS
- Call and Position Link

Remark:

"Call and SMS"

The transmitted SMS is displaying the text "Man-down" and will only be sent to the first defined number in the man-down number list. If the PEGASUS has received GPS data the last captured position data will be sent too.

"Call and Position Link"

If the PEGASUS has received GPS data, a Google map link to the last captured position data will be sent as a text message. If the receiver phone supports internet, you can display the man-down position directly on the Google map.

To transmit settings to the device press button **"send to device"** button.

Make sure **"Activate man-down functionality"** is ticked.

Note

Further details on the man-down function can be found in the PEGASUS manual.

Attention!

Important notes on the man-down functions

Please use the same provider for man-down and emergency numbers as for PEGASUS to prevent delays during dialling. Make sure also that your provider supports the service.

It must be pointed out and ensured that all (!) mailboxes, voice mails and automatic answering systems for the call numbers in the alarm chain are turned off because the first call acceptance stops the alarm chain.

The alarm can't be cancelled from the PEGASUS if alarm is triggered! Before each use of this function the user must conduct a general test for correct functioning.

BARTEC is not responsible or liable for this purpose.

6.8 Provider Menu

<table>
<tr><td>ⓘ
Note</td><td>The **"network provider"** menu is relevant only if the PEGASUS has an on-line tracking function.</td></tr>
</table>
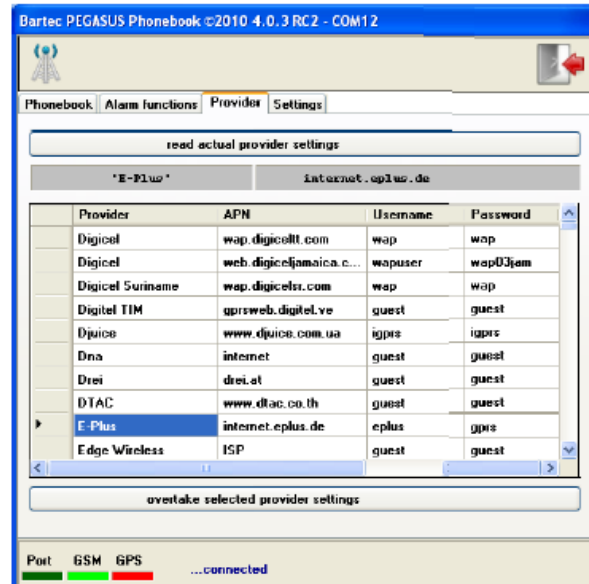
Certain conditions must be fulfilled for the transmission of GPRS data.

- When the BARTEC tracking server is used, the GPS data will be sent via GPRS from the PEGASUS to the server. To gain access, you have to select the right provider of your SIM card on the PEGASUS.

- If your provider is not listed, you should ask your provider to supply this data. You can add the provider data directly into the last line in the list, which has been left blank for that purpose.

7   Troubleshooting, Fault Elimination

Fault	Remedy	Note
No display	Charge battery	➡ ↕⌃ see Chapter 4.5
No reaction from display when key is pressed.	Hard shutdown (reboot).	➡ ↕⌃ see Chapter 4.2
Telephone call is not possible	SIM card inserted?	➡ ↕⌃ see Chapter 4.6
	SIM card activated by the provider?	➡ ↕⌃ see Chapter 5
	GSM network available?	➡ ↕⌃ see Chapter 6.5
Connection set-up too slow	Correct GSM network selected? EU or US?	➡ ↕⌃ see Chapter 6.5
No call number for emergency call key	Call number set?	➡ ↕⌃ see Chapter 6.7

Only for devices with man-down function or on-line tracking function		
Man-Down		
Man-down function cannot be activated	Man-down function cannot be activated	Man-down function cannot be activated
Triggered man-down emergency call cannot be cancelled	Triggered man-down emergency call cannot be cancelled	Triggered man-down emergency call cannot be cancelled
Online tracking		
No connection to the server	No connection to the server	No connection to the server
No GPS detection	No GPS detection	No GPS detection

8   Order Numbers, Accessories

Designation		Order no.
PEGASUS 7100		
PEGASUS 7100-0		G7-C011-0Q01/0000
PEGASUS 7100-1	with man-down function	G7-C011-0Q11/0000
PEGASUS 7100-2	with online-tracking	G7-C011-1Q01/0000
PEGASUS 7100-3	with online-tracking/with man-down function	G7-C011-1Q11/0000
PEGASUS 7110^{ex}		
PEGASUS 7110^{ex}-0		17-C111-0Q01/0000
PEGASUS 7110^{ex}-1	with man-down function	17-C111-0Q11/0000
PEGASUS 7110^{ex}-2	with online-tracking	17-C111-1Q01/0000
PEGASUS 7110^{ex}-3	with online-tracking/with man-down function	17-C111-1Q11/0000
PEGASUS 7120^{ex}		
PEGASUS 7120^{ex}-0		B7-C211-0Q01/0000
PEGASUS 7120^{ex}-1	with man-down function	B7-C211-0Q11/0000
PEGASUS 7120^{ex}-2	with online-tracking	B7-C211-1Q01/0000
PEGASUS 7120^{ex}-3	with online-tracking/with man-down function	B7-C211-1Q11/0000
Accessories - included in scope of supply		
Battery	for 17-C111-…. and B7-C211-….	17-C1Z0-0010
Battery	for G7-C011-….	G7-C0Z0-0002
Charging cable		17-C1Z0-0002
USB-Data cable		17-C1Z0-0003
CD-ROM	(User manual, Phonebook software, USB driver)	
Accessories - not included in scope of supply		
Desktop charger		17-C1Z0-0005
Leather holster		17-C1Z0-0004
Car mount	with battery charger	17-C1Z0-0006
Spare part battery	for 17-C111-…. and B7-C211-….	17-C1Z0-0010
Spare part battery	for G7-C011-….	G7-C0Z0-0002
Tracking license	per year/unit	305566

9   Maintenance, Inspection, Repair

Caution!

Only trained and qualified personnel who have been authorised and trained to assemble electrical components in hazardous (potentially explosive) areas may commission the PEGASUS 71xx series or do any maintenance work on devices from that series! Such personnel is familiar with the installation, assembly, commissioning and operation of the PEGASUS 71xx series, has been informed about the risks and has gained the qualifications required for this work through previous work experience.

Maintenance intervals

The mechanical status of the devices should be checked at regular intervals. The length of the maintenance intervals depends on the ambient conditions. We recommend checking at least once a year. Regular maintenance is not necessary if operated appropriately in conformance with the installation instructions and with due consideration to the ambient conditions.

Inspection

Under IEC 60079-19 and EN 60079-17, the owner/managing operator of electrical installations in hazardous areas is obliged to have these installations checked by a qualified electrician to ensure that they are in a proper condition.

Servicing

Adhere to the applicable regulations under Directive 99/92/EC, IEC 60079-19 and IEC 60079-17 when servicing, doing maintenance work on and testing associated operating equipment!

Assembly/disassembly, operating and maintenance work may be done only by trained specialists. The statutory rules and other binding directives on workplace safety, accident prevention and environmental protection must be observed.

Observe the national waste disposal regulations when disposing of the equipment.

Instructions for Repairs

If you wish to send in a defective device for repair, please read the RMA procedure guidance first. Then fill in and sign the RMA (Return Merchandise Authorization) form and send it to our "Retouren Center".

Email: services@bartec.de   Fax: +49 7931 597-119

We cannot guarantee any contractually agreed processing times for devices that are sent in without an RMA number.

The RMA guide and the RMA form are available on our homepage for downloading.

http://www.bartec-group.de   Quality and culture   RMA form

Have you any questions? Write us an e-mail or call us.

E-mail: services@bartec.de   Phone: +49 7931 597-444

10   Disposal

Battery packs should not be disposed of in general household waste. Observe the local waste disposal regulations, which you can find out about contacting your local authority.

All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.

This crossed-out wheeled bin symbol on the product means the product is covered by the European Directive 2002/96/EC

The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health. It is a precondition for reuse and recycling of used electrical and electronic equipment.

For more detailed information about disposal of your old appliance, please contact your local council refuse centre or the original supplier of the product.

11   Dispatch and Packaging Instructions

Important information regarding transport and dispatch

! Sensitive Devices!

It is absolutely necessary to deliver the equipment in the original packaging in order to avoid damage occurring with the equipment.
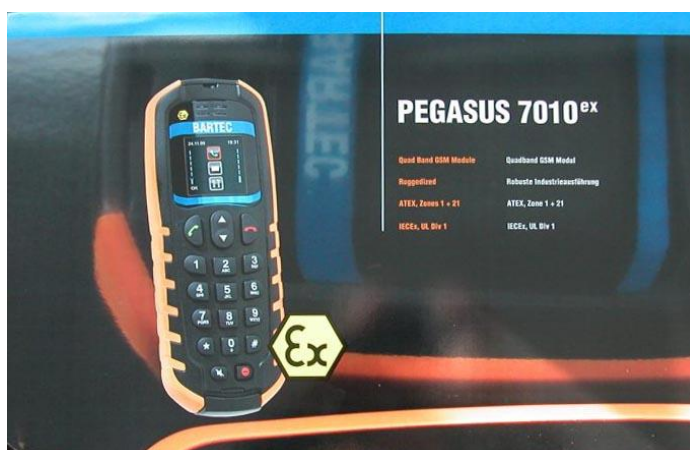

Figure 7: Example PEGASUS 7110ex

Dimensions (Height x Width x Depth)   340 mm x 210 mm x 67 mm

Erklärung der Konformität
Declaration of Conformity
Attestation de conformité

BARTEC
BARTEC GmbH
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany

№ G1-C010-7C0001_A

Wir	We	Nous

BARTEC GmbH,

erklären in alleiniger Verantwortung, dass das Produkt	declare under our sole responsibility that the product	attestons sous notre seule responsabilité que le produit
Pegasus 7100	**Pegasus 7100**	**Pegasus 7100**

$\mathsf{C}\mathsf{E}$

Typenbezeichnung : **G7-C011-*Q*1/0000**

auf das sich diese Erklärung bezieht den Anforderungen der folgenden **Richtlinien (RL)** entspricht	to which this declaration relates is in accordance with the provision of the following **directives (D)**	se référant à cette attestation correspond aux dispositions des **directives (D)** suivantes
EMV-Richtlinie 2004/108/EG	**EMC-Directive 2004/108/EC**	**CEM-Directive 2004/108/CE.**
Funkanlagen und Telekommunikation-sendeeinrichtungen 1999/5/EG	**Radio and Telecommunications Terminal Equipment 1999/5/EC**	**équipements terminaux de radio et de télécommunications 1999/5/CE**
und mit folgenden Normen oder normativen Dokumenten übereinstimmt	and is in conformity with the following standards or other normative documents	et est conforme aux normes ou documents normatifs ci-dessous

EN 60950-1:2006 +A11:2009+A1:2010	**EN 301511 V9.0.2:2003**
EN 301489-7 V1.3.1:2005	**EN 300440-2 V1.4.1:2010**
EN 301489-1 V1.8.1:2008	**FCC Part 15 / Class B**

Kennzeichnung	**Marking**	**Marquage**
$\mathsf{C}\mathsf{E}$ 0681		

Verfahren der internen Fertigungs-kontrolle	**Procedure of internal control of Production**	**Procédure de contrôle interne de fabrication**

Bad Mergentheim, den 26.08.2011

ppa. Ewald Warmuth
Geschäftsleitung / General Manager

03-0383-0289

Erklärung der Konformität
Declaration of Conformity
Attestation de conformité

BARTEC

BARTEC GmbH
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany

N° 11-C111-7C0001_A

Wir	We	Nous

BARTEC GmbH,

erklären in alleiniger Ve-rantwortung, dass das Produkt	declare under our sole re-sponsibility that the product	attestons sous notre seule responsabilité que le pro-duit

$C\epsilon$

Pegasus 7110^{ex}	**Pegasus 7110^{ex}**	**Pegasus 7110^{ex}**

Typenbezeichnung : 17-C111-*Q*1/0000

auf das sich diese Erklä-rung bezieht den Anforde-rungen der folgenden **Richtlinien (RL)** entspricht	to which this declaration relates is in accordance with the provision of the following **directives (D)**	se référant à cette attesta-tion correspond aux dispo-sitions des **directives (D)** suivantes
ATEX-Richtlinie 94/9/EG	**ATEX-Directive 94/9/EC**	**ATEX-Directive 94/9/CE**
EMV-Richtlinie 2004/108/EG	**EMC-Directive 2004/108/EC**	**CEM-Directive 2004/108/CE.**
Funkanlagen und Telekommunikation sendeeinrichtungen 1999/5/EG	**Radio and Telecommu-nications Terminal Equipment 1999/5/EC**	**équipements termi-naux de radio et de télécommunications 1999/5/CE**
und mit folgenden Normen oder normativen Doku-menten übereinstimmt	and is in conformity with the following standards or other normative documents	et est conforme aux normes ou documents normatifs ci-dessous

EN 60079-0:2009	EN 301511 V9.0.2:2003
EN 60079-11:2007	EN 300440-2 V1.4.1:2010
EN 60950-1:2006 +A11:2009+A1:2010	FCC Part 15 / Class B
EN 301489-7 V1.3.1:2005	EN 301489-1 V1.8.1:2008

Kennzeichnung	**Marking**	**Marquage**
II 2G Ex ib IIC T4 -20°C ≤ Ta ≤ +60°C		
Verfahren der EG-Baumusterprüfung / Benannte Stelle	**Procedure of EC-Type Examination / Notified Body**	**Procédure d'examen CE de type / Organisme Notifé**
Demko 10 ATEX 0911055X		

UL International Demko, Lyskaer 8, DK-2730 Herlev, Denmark

$C\epsilon$ 0044
$C\epsilon$ 0681

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Erklärung der Konformität
Declaration of Conformity
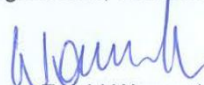Attestation de conformité

BARTEC
BARTEC GmbH
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany

Nº 11-C111-7C0001_A

ATEX-Richtlinie 94/9/EG	ATEX-Directive 94/9/EC	ATEX-Directive 94/9/CE
EMV-Richtlinie 2004/108/EG	EMC-Directive 2004/108/EC	CEM-Directive 2004/108/CE.
Funkanlagen und Telekommunikation sendeeinrichtungen 1999/5/EG	Radio and Telecommunications Terminal Equipment 1999/5/EC	équipements terminaux de radio et de télécommunications 1999/5/CE
und mit folgenden Normen oder normativen Dokumenten übereinstimmt	and is in conformity with the following standards or other normative documents	et est conforme aux normes ou documents normatifs ci-dessous

EN 60079-0:2009   IEC 60079-0:2007 Ed5
EN 60079-11:2007   EN 301511 V9.0.2:2003
IEC 60079-11:2011 Ed6   EN 300440-2 V1.4.1:2010
EN 60950-1:2006 +A11:2009+A1:2010 FCC Part 15 / Class B
EN 301489-7 V1.3.1:2005   EN 301489-1 V1.8.1:2008

Kennzeichnung	Marking	Marquage

II 3D Ex ic IIIC T130°C Dc X
-20°C ≤ Ta ≤ +60°C

Verfahren der internen Fertigungs-kontrolle	Procedure of internal control of Production	Procédure de contrôle interne de fabrication
X- Kennzeichnung für ATEX Zone22 :	X-marking for ATEX Zone22:	Marquage pour ATEX Zone 22.
Die Stoßprüfung nach IEC 60079-0 Abschnitt 26.4.2 wurde nur mit der niedrigen Schlagenergie durchgeführt. Daher muss sichergestellt werden, dass das Gerät nur einem niedrigen Risiko mechanischer Gefährdung ausgesetzt wird.	The impact test according to IEC 60079-0, section 26.4.2 was only with the low-energy shock performed. Therefore it must be ensured that the unit is only exposed to a low-risk-engine mechanical shear hazard	Tel que décrit par la norme IEC 60079-0 (26.4.2), l'essai de tenue aux chocs a été effectué en soumettant l'appareil à la valeur basse de l'énergie de choc. En conséquence l'appareil devra être seulement utilisé dans un environnement où il sera soumis à des faibles risques de détériorations mécaniques.

CE
CE 0681

Bad Mergentheim, den 26.08.2011

ppa. Ewald Warmuth
Geschäftsleitung / General Manager

Seite 2 von 2

Erklärung der Konformität
Declaration of Conformity
Attestation de conformité

BARTEC

BARTEC GmbH
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany

№ B1-C211-7C0001_A

$\mathsf{C}\mathsf{E}$

Wir	We	Nous
BARTEC GmbH,		
erklären in alleiniger Verantwortung, dass das Produkt	declare under our sole responsibility that the product	attestons sous notre seule responsabilité que le produit
Pegasus 7120ex	**Pegasus 7120**ex	**Pegasus 7120**ex

Typenbezeichnung : **B7-C211-*Q*1/0000**

auf das sich diese Erklärung bezieht den Anforderungen der folgenden **Richtlinien (RL)** entspricht	to which this declaration relates is in accordance with the provision of the following **directives (D)**	se référant à cette attestation correspond aux dispositions des **directives (D)** suivantes
ATEX-Richtlinie 94/9/EG	**ATEX-Directive 94/9/EC**	**ATEX-Directive 94/9/CE**
EMV-Richtlinie 2004/108/EG	**EMC-Directive 2004/108/EC**	**CEM-Directive 2004/108/CE.**
Funkanlagen und Telekommunikation sendeeinrichtungen 1999/5/EG	**Radio and Telecommunications Terminal Equipment 1999/5/EC**	**équipements terminaux de radio et de télécommunications 1999/5/CE**
und mit folgenden Normen oder normativen Dokumenten übereinstimmt	and is in conformity with the following standards or other normative documents	et est conforme aux normes ou documents normatifs ci-dessous

EN 60079-0:2009	EN 301511 V9.0.2:2003
EN 60079-11:2007	EN 300440-2 V1.4.1:2010
EN 60950-1:2006 +A11:2009+A1:2010	FCC Part 15 / Class B
EN 301489-7 V1.3.1:2005	EN 301489-1 V1.8.1:2008

Kennzeichnung	**Marking**	**Marquage**
II 3G Ex ic IIC T4 -20°C ≤ Ta ≤ +60°C		

Verfahren der EG-Baumusterprüfung / Benannte Stelle	**Procedure of EC-Type Examination / Notified Body**	**Procédure d'examen CE de type / Organisme Notifé**
Demko 10 ATEX 147282X UL International Demko, Lyskaer 8, DK-2730 Herlev, Denmark		

$\mathsf{C}\mathsf{E}$ 0681

Seite 1 von 2

Erklärung der Konformität
Declaration of Conformity
Attestation de conformité

BARTEC
BARTEC GmbH
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany

Nº B1-C211-7C0001_A

ATEX-Richtlinie 94/9/EG EMV-Richtlinie 2004/108/EG Funkanlagen und Telekommunikation sendeeinrichtungen 1999/5/EG und mit folgenden Normen oder normativen Dokumenten übereinstimmt	ATEX-Directive 94/9/EC EMC-Directive 2004/108/EC Radio and Telecommunications Terminal Equipment 1999/5/EC and is in conformity with the following standards or other normative documents	ATEX-Directive 94/9/CE CEM-Directive 2004/108/CE. équipements terminaux de radio et de télécommunications 1999/5/CE et est conforme aux normes ou documents normatifs ci-dessous

IEC 60079-11:2011 Ed6   IEC 60079-0:2007 Ed5
EN 60950-1:2006 +A11:2009+A1:2010   EN 301 511 V9.0.2:2003
EN 301 489-7 V1.3.1:2005   EN 300 440-2 V1.4.1:2010
EN 301 489-1 V1.8.1:2008   FCC Part 15 / Class B

Kennzeichnung	Marking	Marquage

II 3D   Ex ic IIIC T130°C Dc X
-20°C ≤ Ta ≤ +60°C

Verfahren der internen Fertigungs-kontrolle	Procedure of internal control of Production	Procédure de contrôle interne de fabrication
X- Kennzeichnung für ATEX Zone22 : Die Stoßprüfung nach IEC 60079-0 Abschnitt 26.4.2 wurde nur mit der niedrigen Schlagenergie durchgeführt. Daher muss sichergestellt werden, dass das Gerät nur einem niedrigen Risiko mechanischer Gefährdung ausgesetzt wird.	X-marking for ATEX Zone22: The impact test according to IEC 60079-0, section 26.4.2 was only with the low-energy shock performed. Therefore it must be ensured that the unit is only exposed to a low-risk-engine mechanical shear hazard	Marquage pour ATEX Zone 22. Tel que décrit par la norme IEC 60079-0 (26.4.2), l'essai de tenue aux chocs a été effectué en soumettant l'appareil à la valeur basse de l'énergie de choc. En conséquence l'appareil devra être seulement utilisé dans un environnement où il sera soumis à des faibles risques de détériorations mécaniques.

CE 0681

Bad Mergentheim, den 26.08.2011

ppa. Ewald Warmuth
Geschäftsleitung / General Manager

Seite 2 von 2

⁘ eurofins
Product Service

EXPERTISE

Expert Opinion of the Notified Body based on the Conformity Assessment according to
Annex IV of the R&TTE Directive 1999/5/EC

Eurofins Product Service GmbH

EU Identification Number **0681**

recognized by

🦅 | Bundesnetzagentur

BNetzA-bS-02/51-53

Registration Number: G0M21003-2994-C

Certificate Holder: **BARTEC GmbH, Max-Eyth-Straße 16
97980 Bad Mergentheim, Germany**

Model Name: **Pegasus**
Brand Name: **./.**

Product Description: **GSM/GPRS mobile phone with GPS**

Applied harmonised Standards:	Safety/Health:	EN 60950-1:2006+A11:2009+A1:2010
		EN 62311:2008
		EN 50360:2001
	EMC:	EN 301 489-7 V1.3.1:2005-11
		EN 301 489-1 V1.8.1:2008-04
	Radio:	EN 301 511 V 9.0.2:2003-03
		EN 300 440-2 V1.4.1:2010-08

This certificate is issued in accordance with Annex IV of the R&TTE Directive 1999/5/EC of 9th March, 1999
and is only valid in conjunction with the following annex: - **1** -

Marking Example according to Article 12 of the R&TTE Directive: **CE0681**

Reichenwalde, 27 May 2011
Ort, Ausstellungsdatum
Place, Date of Issue

Unterzeichnet von/Signed by Jörg Kusig
Benannte Stelle/Notified Body

Eurofins Product Service GmbH
Storkower Strasse 38c, D-15526 Reichenwalde b. Berlin, Germany, Phone +49-33631-888 000 Fax +49-33631-888 650

Opinion on the essential requirements

Article 3.1a) Health and Safety	no remarks
Article 3.1.b) electromagnetic compatibility	no remarks
Article 3.2 effective use of the radio spectrum	based on modular approval

Manufacturer(s)	FMO Electronics GmbH In den Folgen 39 98704 Langewiesen, Germany

System description

Frequency band(s)		Transmit band (Tx)	Receive band (Rx)
	E-GSM 900	880 to 915 MHz	925 to 960 MHz
	DCS 1800	1710 to 1785 MHz	1805 to 1880 MHz

Channel		spacing	Duplex spacing	Number
	E-GSM 900	200 kHz	45 MHz	174
	DCS 1800	200 kHz	95 MHz	374

Transmit power		
	E-GSM 900	+ 33 dBm Class 4 (2 W)
	DCS 1800	+ 30 dBm Class 1 (1 W)

Type of modulation	GMSK
Type of antenna	external
Mode of operation (simplex/duplex)	duplex
Comments	European harmonised Frequency band Class Identifier: 1.9 GSM handsets, including GSM 900, GSM 1800

Frequency band(s)	1.57542 GHz (GPS Receiver only)

Technical Construction File

essential components of the technical construction file:

Test Report(s)	**Safety/Health:**	**G0M21003-2994-L**
		G0M21003-2994-S-4
	EMC:	**G0M21003-2994-E-12**
	Radio:	**G0M21003-2994-T-42_REV01**
		G0M21003-2994-T-51

User manual
Technical Documentation

Pegasus 70xx Series, Vers. 1.0.0

including:

PCB Layout
Circuit diagram
Part list
Plock Diagram

Declarations:

Acc. to Article 3.1a: protection health/safety

Acc. to Article 3.1b: relating electromagnetic compatibility

Acc. to Article 3.2:   relating radio spectrum

Obligations of the Certificate Holder

An opinion is valid at the time of issue and relates only to the situation at that time. It is the manufacturer's responsibility to seek an updated opinion if they believe that a change in design, manufacture, requirements or any other matter calls in to question the validity of the opinion.

In this sense, there is no "duration of validity" for a notified body opinion. It remains valid for so long as the circumstances relevant to its issue remain unchanged. If there is a change, then it is the responsibility of the manufacturer to determine the need for a new or updated opinion.

The Declaration of Conformity must be supplied with each product; it can be a separated leaflet or be printed in the users manual or packaging.

Equipment, which at the time of placing on the market contains as an integral part a R&TTE component, which should not be removed by the user, should be marked according to the R&TTE Directive. In addition in its user manual it should comply with the R&TTE Directive and e.g. indicate geographic limitations of use.

Notice

BARTEC

BARTEC protects people and the environment by the safety of components, systems and plants.