

LX4 PAGER

USER MANUAL

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PREFACE

SCOPE OF THIS GUIDE

This document describes the basic principles of the Oelmann LX4 pager operation, as well as provides guidance and recommendations for its correct transportation, storage and use.

DOCUMENT CONVENTIONS

The content of the document reflects the general principles of the LX4 pager.

- End–user product package may contain additional elements and options.
- Software screenshots are provided here are for information only. All user elements and names of screenshots and settings used are demo.

ASSOCIATED DOCUMENTATION

- Oelmann SIRIUS Software User Guide.
- Oelmann IS, PRS Series base stations User Guides.

PUBLICATION RECORD

DATE	LANG	ISSUE	Re	Notes
28.08.2019	DE	Erstveröffentlichung	MP	
29.10.2020	EN	Basic product description	MP, IA	
14.12.2021	EN	Updated with software license	IA	
21.12.2021	EN	Updated with delivery content, pager controls	IA	
07.01.2022	EN	Updated with delivery content, pager controls	IA	

DESCRIPTION

LX4 pager is a professional digital compact highly portable professional POCSAG receiver. LX4 pager is intended to use by firefighters, personal security and safety services, industry and healthcare, rescue or logistics.

FEATURES AND FACTS

- Fine tuning over a wide frequency ranges VHF or UHF without changing hardware parts.
- Best-in-class sensitivity, precise selectivity for fast on-air messages.
- Standard AA-type battery, rechargeable or a primary cell.
- Customizable user interface, including the language and custom alert tones.
- Best readability by proportional character spacing and bright LED-backlight display, RGB-color.
- Single- or multichanger, charger with external antenna and alert siren connector, carrying chain, belt carrying case and the belt clips are optionally available.

TECHNICAL DATA

- POCSAG 512, 1200, 2400 Baud.
- 2m band VHF: 143...158MHz, 158...174MHz.
- 70cm band UHF: 442...470MHz.
- Number of RF-channels: one or two channels per user profile, 12,5/20/25kHz channel spacing.
- Sensitivity, body-worn (typical): 1,9/2.8/3,8 $\mu\text{V}/\text{m}$ (512/1200/2400 Baud).
- 256 addresses (64 RICs with 4 sub-addresses each, frame independent, tone-only, numeric, alphanumeric) with programmable key word (32 characters and assigned alert sound pattern), priority call: always loud audible alert, even with vibrate.
- Up to 750 characters per message.
- 4-line display with up to 120 characters per display, switchable to large characters (3-line, 48...90 chars).
- RGB-color LED backlight display.
- Multi-level battery indicator.
- Standard AA size rechargeable or non-rechargeable battery type.
- 128 bit (BOS PV) or AES 256 bit (BOSKRYPT) encryption (optional).
- 80x54x19 mm.
- 85 g.
- $-10...+55^{\circ}\text{C}$.
- IP52 (IP54 in original case)
- Over-the-air programming:
 - Setting the pager clock.
 - Switching user profiles (e.g. change of shift).
 - Forming dynamic user groups (user profiles).
 - Locking of the pager (when it is lost or stolen).

DELIVERY CONTENT

As standard, the pager is supplied in an Oelmann cardboard box containing the following:

- LX4 pager
- AA-size rechargeable battery (the battery manufacturer may be different, but always of high quality and proven reliability).
- Plastic belt clip, transparent.
- Short user guide.

The standard delivery content is shown in Figure below:



GENERAL SAFETY INFORMATION

EQUIPMENT SAFETY

SERVICING PERSONNEL

The device and its accessories should be serviced only by qualified personnel.

PREVENTING DAMAGE TO THE DEVICE

This device has been designed to operate safely under a wide range of conditions.

ESD PRECAUTIONS

Notice: This equipment contains devices which are susceptible to damage from static charges. You must handle these devices carefully.

We recommend you purchase an antistatic bench kit from a reputable manufacturer and install and test it according to the manufacturer's instructions.

You can obtain further information on antistatic precautions and the dangers of electrostatic discharge (ESD) from standards such as ANSI/ ESD S20.20–1999 or BS EN 100015–4 1994.

ENVIRONMENTAL CONDITIONS

OPERATING TEMPERATURE RANGE

The operating temperature range of the equipment is -10°C to $+55^{\circ}\text{C}$ ambient temperature. There are no cooling fans inside. Ambient temperature is defined as the temperature of the air at the upper side of the device. In case of high temperature risk take care of using external cooling.

HUMIDITY

The humidity should not exceed 95% relative humidity through the specified operating temperature range.

DUST AND DIRT

For uncontrolled environments, the level of airborne particulates must not exceed $100\mu\text{g}/\text{m}^3$.

LICENSES AND REGULATORY INFORMATION

COMPLIANCE STANDARDS

Oelmann Elektronik GmbH ensures that all products comply with the regulatory requirements. All the Oelmann manufacturing processes are certified to meet the requirements of ISO 9001:2015.

All shipments from Oelmann EU manufacturing and material supply chain comply with the Restriction of Hazardous Substances (RoHS) Directive.

The formal Declaration of Conformity / EU Regulatory compliance notification is on page 24.

UNAUTHORIZED MODIFICATIONS

Unauthorized modification of LX4 hardware or built-in software (firmware) can cause security vulnerabilities, instability, and other issues.

LX4 is designed to be reliable and secure. Unauthorized modifications to the device firmware bypass integrity and security features and can cause numerous issues to the customer messaging or paging system in general.

Unauthorized modification leads to inability to apply future firmware updates.

Oelmann Elektronik GmbH strongly cautions against installing any software that hacks LX4. It is important to note that unauthorized modification of the LX4 firmware is a violation of the **End-user software license agreement** on page 21.

HEALTH, SAFETY AND ELECTROMAGNETIC COMPATIBILITY

In the European Community, radio and telecommunications equipment is regulated by Directive 1999/5/EC, also known as Radio and Telecommunications Terminal Equipment (R&TTE) directive. The requirements of this directive include protection of health and safety of users, as well as electromagnetic compatibility.

INTENDED PURPOSE OF PRODUCT

This product is a radio receiver. It is intended for to be used in the POCSAG paging services, in all member states of the European Union (EU) and states within the European Economic Area (EEA).

PAGER DISPLAY SYMBOLS

STATUS SYMBOLS

-  Power On
-  Auto On / Off Mode Enabled
-  Out Of Range Indicator
-  Low Battery (Warning Level 1)
-  Low Battery (Warning Level 2)
-  Pager in charger indicator
-  Clock Alarm Enabled
-  Vibration Alert Mode Enabled
-  Audible Alert Mode Enabled
-  Encryption enabled (optional)

FUNCTION SYMBOLS

-  Set Auto On / Off Mode
-  Set Message Alert Pattern
-  Set Time
-  Set Clock Alarm
-  Set Message Alert Mode
-  Set User Number
-  Set Magnifier Glass Function
-  Turn Pager Off
-  Escape to Main Screen
-  Lock Message
-  Unlock Message
-  Delete Message
-  Delete All Messages
-  Enable Out Of Range Indicator
-  Disable Out Of Range Indicator
-  Re-routing Message

MESSAGE SYMBOLS

-  Message in memory
-  Cursor on the message
-  The message is locked
-  Cursor is on locked message

OTHER SYMBOLS

-  Auto On/ Off Mode Enabled
-  Auto On/ Off Mode Disabled
-  24 Hour Time Indicator
-  AM Time Indicator
-  PM Time Indicator
-  Alarm Enabled
-  Alarm Disabled
-  Increment Value
-  Long Message Continuation Indicator
-  Error Character Mark

PAGER CONTROLS

All pager operations are performed using the control buttons on the front panel of the device. The controls are used to select an option suggested by the pager menu and to cycle through the possible parameter values, as well as to confirm or reject a parameter entry.

The controls are shown in Figure below:



- ◀ Button "To the left"
- ▶ Button "To the right"
- Button "Function"
- Button "Read"
- ▲ Button "Up"
- ▼ Button "Down"

IMPORTANT NOTICE

This alphanumeric pager is used by members of e.g. fire brigades, rescue or maintenance services. The intended use of this product is to receive important messages and to give audible or non-audible (vibration) alert. Any other use does not comply with the intended use.

- Do not disassemble your pager (loss of warranty).
- Keep batteries away from small children, batteries might be swallowed.
- Do not dispose of batteries in household trash. Use a proper dispose of according to your area.
- Do not dispose of batteries in fire. They might explode.
- The pager must not be subject to the influence of strong magnetic fields, e.g. loudspeakers, TV sets, monitors etc.
- Keep the pager away from direct sunlight.
- The pager is not suitable to be used within explosive areas (use ATEX variant).

OPERATIONS

TURNING YOUR PAGER ON

Press the Read Button  for 2 seconds. Your pager awakes with the display logo and short sound.

Note: If the pager is protected against unauthorized operation the PIN code has to be keyed in after the battery was inserted:

- The input field flashes: change the value by pressing the buttons ▲ or ▼
- Choose the next input field by pressing the button ◀ or ▶, respectively. To confirm your input press button ●

FUNCTION MENU

The function menu gives you access to the many features of your pager through a series of symbols and prompts. To get to the function menu please press the Function Button ●

In the lower display line all available functions are displayed through symbols.

A flashing symbol indicates the present position of the cursor. As you move the cursor right ▶ or left ◀ across the symbols, a corresponding prompt appears in the upper display line. To activate your function selection, press the Function Button ●

Note: Any function may have been disabled during programming so that it is not available on your pager.

TURNING YOUR PAGER OFF

Select Pager Off  in the function menu and press the Function Button .

Press button  again to confirm and to turn your pager off.

STANDBY SCREEN

The pager returns to the standby screen, if not operated for some time. The standby screen shows the current User Number, time and date and important hints in the pager status line (refer to pager status symbols).

Hint: In case of unread messages the User Number and the On symbol  are flashing.

KEY LOCK

The Pager can be protected against being operated unintentionally by key lock (programmable):

1. Press and hold the button  in standby screen until “Key Lock” appears on the screen.
2. By pressing the button  again you can turn on and off the key lock.

Hint: If key lock is activated “Key Lock” appears on the screen whenever a button is pressed. In case of alert key lock is turned off automatically.

SETTING THE CLOCK

The pager shows the exact time and date. Flashing symbols  for time and date mean that the pager clock is not yet set. Setting the clock is done this way:

1. Select Set Time  in the function menu and press the Function Button .
2. Now set the time. The active position flashes. Change the value of the active position using the  or  buttons. Press  or  to move over to the next position.

To escape without making changes, press .

3. Press the Function Button  to activate your changes.

Hints:

- Changing from normal to daylight saving time is done automatically.
- The pager internal clock can also be set "over the air" by the paging system's transmitter (remote maintenance).

OUT OF RANGE INDICATION

Whenever you are too far away from your paging system's transmitter to reliably receive messages, your pager displays the Out Of Range symbol  and an Out Of Range alert is raised. If you do not recognize the alert (you do not press any button) there will be a repetition in regular intervals and the Out Of Range symbol  flashes.

You can disable and enable the Out Of Range Indication:

1. Select Out Of Range  /  in the function menu.
2. Press the Function Button  to disable  or enable  the Out Of Range Indication.

RECEIVING AND READING MESSAGES

As soon as your pager receives a message, it alerts and the message received indicator  is displayed. It indicates an incoming message is received and stored in the pager memory.

1. Press any button to stop the signaling on alert received.
2. If you do not confirm the alert of message receiving (you do not press any button) then signalling will be a repetition in regular intervals.
3. A flashing display backlight indicates a message has been received.
4. To read the message press the Read Button . The flashing arrow  at the bottom right corner of the pager screen indicates that the received message is larger to be displayed at once, so it continues beyond the first lines of the display. To be able to continue reading, press the Read Button  again. Each  press advances the message to the next lines. Press and hold  to rapidly scroll through your message. Press  or  to scroll up or down your message.)
5. If more than one message received, press  or  to select the message you want to read. The reversed cursor  indicates the location of your message in memory.
6. The Message In Memory Indicator of a message, that has not yet been read, flashes until the message is read one time.
7. A flashing On  symbol indicates a message has been received, but has not yet been read.

Hint: Any character of the message that was received incorrectly is alternately displayed as flashing and as the error character .

MAGNIFIER GLASS FUNCTION

Received messages may be displayed in small or large letters:

1. Select Magnifier Glass  in the function menu and press the Function Button .
2. Select the wanted function using the  or  buttons.
3. To escape without making changes, press .
4. Confirm the chosen function by pressing .

BACKLIGHTING OF THE DISPLAY

To view the information on the display in low light conditions, you can turn on the backlight of the pager display by long pressing (2 seconds) the function button . The backlight will turn off automatically or by pressing  again for 2 seconds.

LOCKING AND UNLOCKING MESSAGES

Up to 10 messages can be “locked” in memory, so that they can be read again at any time. Locked messages are not being replaced when your pager’s memory is full and even not being deleted if the Delete All function  is chosen.

1. Display the message to be locked (see “Receiving and Reading Messages”).
2. Select Lock Message  in the function menu and press the Function Button .
3. The padlock  symbol appears, indicating the message has been locked.

Repeat steps 1-3 to unlock () the message again.

DELETING RECEIVED MESSAGE FROM MEMORY

Often it is sufficient to read a new message only one time. If you do not want to store a message, you can delete it while you are viewing it, or through the function menu. Only messages that have been read and being unlocked can be deleted.

1. Display the message to be deleted (see “Receiving and reading messages”).
2. Select Delete Message  in the function menu and press the Function Button .
3. Press  once more to delete the message from memory.

DELETE ALL RECEIVED MESSAGES FROM MEMORY

You can Delete All Messages from memory at one time. But only messages that have been read and that are unlocked can be deleted.

1. Select Delete All  in the function menu and press the Function Button .
2. Press  once more to delete all messages.

SETTING THE CLOCK ALARM

Your pager is equipped with a Clock Alarm feature. Here is how to set the alarm:

1. Select Set Alarm  in the function menu and press the Function Button .
2. Now set up the clock alarm time. The active position flashes. Change the value of the active position using the  or  button. Press  or  to move over to the next position.
3. The most left position defines the clock alarm status: enable () or disable (). To escape from any field without making changes press .
4. Press  to confirm your clock alarm settings.

If an alarm has been set the clock alarm Indicator  is displayed in the pager status line. At the selected time, your pager vibrates or emits an audible alert. If you do not recognize the alert (you do not press any button) there will be a repetition in regular intervals and the time and the alarm symbol  flashes.

SETTING THE MESSAGE ALERT MODE

You can choose one out of four different message alert modes:

- LOUD+VIBRATION**audible plus vibration
- LOUD**audible without vibration
- GENTLE**starts with low sound level
- SILENT**vibration only

1. Select alert mode  in the function menu and press the Function Button 
2. Now select the wanted Alert Mode with  or  button. The selected Alert Mode flashes, your pager emits a short alert according to the chosen Alert Mode. To escape without making changes, press 
3. Confirm your selection by pressing the  button. Your pager emits a short alert according to the chosen Alert Mode.

Hint: The chosen Alert Mode is displayed in pager status line.

SETTING THE MESSAGE ALERT PATTERN

You can choose the alert pattern that shall be audible when a message is received.

1. Select alert pattern  in the function menu and press the Function Button 
2. Using the buttons  or  choose the alert pattern you like most. The chosen pattern plays and flashes:
 - 1 . . 1 6**standard alert pattern
 - special pager alert pattern
 - pattern fixed by programmingTo escape without making changes, press 
3. Confirm your selection by pressing the button . The selected alert plays through the internal speaker.

SELECTING THE PAGER NUMBER PROFILE

The pager can have up to sixteen different user profiles. Every profile is a set of 1...64 pager numbers (RICs). Every address have up to 4 prefixes (so called Cap-code as A,B,C,D). Pager numbers and profiles are pre-programmed prior to issuing the pager to the end user.

1. Select user profile  in the function menu and press the Function Button 

2. Select the wanted User Number using the ► or ◀ buttons.

To escape without making changes, press ●

3. Confirm the chosen User Number by pressing ●

Hint: The user number can also be changed “over the air” by the paging system’s transmitter (so called remote maintenance).

SETTING THE AUTO ON/OFF MODE

To have a pager active only within time specified, you can define times for automatically switching On and Off your pager.

1. Select Auto On / Off  in the function menu and press the Function Button ●

2. Set the time for On (left hand) and Off (right hand). The active position flashes. Change the value of the active position using the ▲ or ▼ button. Press ► or ◀ to move over to the next position.

3. At the most left position you turn the Auto On/Off Mode On () or Off () .

To escape from the Auto On/Off screen without making changes, press ●

4. Confirm your selection by pressing the button ●

The Auto On/Off symbol  is displayed at the upper left side of the screen if the Auto On/Off Mode was enabled.

PROGRAMMING THE PAGER

The pager should be programmed before use, it can be adapted individually to your needs by programming.

All the pager settings (e.g. POCSAG addresses (RICs), message alert pattern, message alert duration, message alert reminder, out of range alert, user numbers etc.) to be initially programmed. All menu text prompts can be changed and re-programmed.

Programming is done via original Oelmann PSW LX software (Windows PC) and hardware programming adapter.

MAINTENANCE AND REPAIR

Check the battery for corrosion or salt exit, regularly. If necessary, replace the battery.

Clean the pager as required using a moist cloth. Under no circumstances must strong solutions as methylated spirits, petrol or nail varnish remover be used. Do not use running water for cleaning!

If your pager ever requires service, your dealer or the service company (refer to “technical data”) offers repair and maintenance facilities.

ACCESSORIES

The following accessories are available:

- Belt holster
- Leather / nylon case
- Carrying chain / bungee cord
- Desktop charging cradle, Rod Antenna, Alert Siren
- Data cradle (Adapter with serial data interface)
- Programming kit (Adapter and PC Software)

RE-ROUTING RECEIVED MESSAGES

After choosing the Message route symbol  in the function menu you can re-route any received message to a PC, printer or large size display via optional data cradle (desktop pager adapter with serial data interface).

PAGER DEACTIVATED FUNCTION

In case your pager displays **PAGER PROTECT** then it cannot receive messages any longer because it was set to a remote maintenance condition by the paging system's transmitter "over the air".

LOW BATTERY ALERT

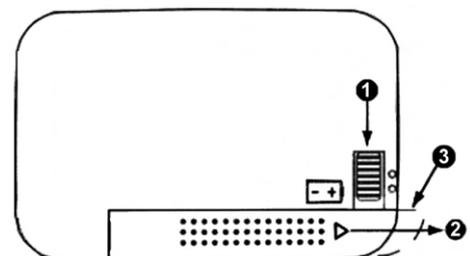
When the battery voltage drops, the symbol  (battery warning level 1) is displayed. Whenever the symbol  (battery warning level 2) is displayed, the battery must be charged or replaced to the fully charged one very soon (backlight turns off automatically).

When the battery voltage reaches one of the warning levels the pager emits a low battery alert. If you do not recognize the alert (you do not press any button) there will be a repetition in regular intervals and the symbol  or  flashes.

BATTERY REPLACEMENT

To install or replace the battery, place the pager face down, then:

1. Unlock the battery cover by sliding the cover latch up with your thumb.
2. Slide the battery cover to the right.
3. Remove the battery cover.
4. Install the battery.
5. Close the battery compartment cover.





Important notes:

- Take care to ensure correct polarity of the battery (see polarity markings next to the battery cover).
- All received messages remain stored during a battery change.
- Do not use carbon zinc batteries.

CHARGING / SELECTING CELL TYPE

A regular charging the battery is necessary.

Important Notice: Do not try to charge non-chargeable batteries as there is the risk of the battery explosion!

After a battery replacement pager displays (with an audible alert) a message to confirm the battery cell type (chargeable or non-chargeable battery). This is to prevent unintentional charging of a non-chargeable battery. Select the proper cell type by pressing the button ► or ◀, and confirm your selection by pressing ● button.

Charging: For charging, open the cover frame of the desktop charger and put the pager into the charger. Afterwards close the frame. After a short time, the symbol  is displayed. In case it does not display, please take off the pager and place it carefully back again.

Note: Clean the charging contacts, regularly.

If the pager's rechargeable battery is exhausted, it may happen that the charging is not turned on automatically. In this case leave your pager inside the charger for some minutes. Afterwards take it off and place it again in order to start the supervised charging procedure.

The rechargeable battery is charged in a supervised way inside the Charging Unit, i.e. it is charged as long as necessary, depending on the charging state. After the supervised charging is done, the charger moves over to a trickle charge mode. This procedure is to achieve the longest possible rechargeable battery life.

Note: Do not leave your pager inside the charger, permanently.

Important: To make possible the supervised charging procedure and reliable Low Battery Alert function, it is necessary to set the nominal capacity of the rechargeable battery during programming of the pager (refer to statements of the manufacturer, i.e. 2400mAh).

Note: If you want to use a new rechargeable battery, it has to be fully charged one time, first. Otherwise the charging state is unknown and the charging procedure (described above) cannot work. Therefore, the rechargeable battery should not be taken out of the pager unnecessarily. Factory-new rechargeable batteries reach their maximum possible capacity after several cycles of charge and discharge, only.

Being inside the desktop charger, the pager is set to audible alert mode automatically (vibrator turned off).

DISPOSAL OF YOUR ELECTRONIC AND ELECTRIC EQUIPMENT



Please do not dispose of Electronic and Electric Equipment or Electronic and Electric Accessories with your household waste. In some countries or regions, collection systems have been set up to handle waste of electrical and electronic equipment. In European Union countries, please contact your local equipment supplier representative or service center for information about the waste collection system in your country.

MAINTENANCE, TROUBLESHOOTING AND SERVICE

MAINTENANCE

The pager is designed to be very reliable and should require little maintenance. There are no special maintenance requirements for the pager.

The pager functions in a continuous mode 24/7.

TROUBLESHOOTING

Check the fully charged battery is in, and that pager switched on. If problems persist, contact your regional Oelmann Elektronik office.

SERVICE AND REPAIR

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<https://oelmann-elektronik.com>

GUIDELINES FOR CLEANING PAGERS

Applies to following Oelmann pagers: LX2, LX4, LX7, LX8, TETRA, WIFI pager.

Oelmann pagers are made with a variety of materials, and each material might have specific cleaning requirements. Here are tips that apply to all pagers:

- Unplug all external power sources, devices, and cables.
- Gently wipe the surfaces of your Oelmann pager, such as the display, buttons, and other exterior surfaces.
- Pagers can remain ON while wiping.
- Make sure the pager is completely dry before use.

Notes:

- Use a soft, lint-free cloth. Avoid abrasive cloths, towels, paper towels, or similar items.
- Avoid excessive wiping, which might cause damage.

IMPORTANT NOTES:

- Don't get moisture into any openings of the pager.
- Don't submerge the pager in any cleaning agents.
- Don't use aerosol sprays, bleaches, or abrasives.
- Don't spray cleaners directly onto the device.
- Keep liquids away from the device.

Use a disinfectant on an Oelmann pager:

Using a 70% isopropyl alcohol wipes, any EPA-registered chemicals wipes, or the wipes with Accelerated Hydrogen Peroxide (AHP). **Don't use bleach.**

Cleaning the pager accessories

Belt holster, charger: same as above to wipe them down. Make sure they're completely dry before use.

Note for LX2, LX4, LX8 Series Pager chargers:

- Wipe the inside of the with extreme care.
- Do not spill liquid into the devices.
- Do not damage the pin contacts.

How often to clean a pager

It is safe to clean a pager daily.

Warranty note

If liquid makes its way inside your Oelmann product then do not use it, and get help from an Oelmann Authorized Partner or Oelmann Elektronik GmbH direct as soon as possible. Liquid damage isn't covered under the Oelmann product warranty.

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DECLARATION OF CONFORMITY

Oelmann Elektronik GmbH herewith declares that the pager is in accordance with the essential requirements and regulations of the directive 1999/5/EC.

EU DECLARATION OF CONFORMITY

This declaration of conformity is issued under the sole responsibility of the manufacturer: **Oelmann Elektronik GmbH, Rathenaustrasse 2-6, 31832 Springe, Germany**

Object of Declaration: **LX4 Pager**

Product Name: **LX4**

The object of the declaration described above is in conformity with the relevant Community harmonization legislation:

- 2014/53/EU Harmonization of the laws of the Member States relating to the making available on the market of radio equipment (RED)
- 2013/35/EU Health and safety requirements regarding the exposure (MPE)
- 2012/19/EU Waste Electrical and Electronic Equipment (WEEE)
- 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

Harmonized standards and specifications used:

- Electrical Safety: EN62368-1:2014+A11:2017
- EMC: EN301 489-1 V2.2.0, EN301 489-5 V2.2.0
- Human Exposure Restrictions (MPE): EN 50385:2017, EN62311:2008, EN62479:2010
- RF: EN300 086 V2.1.2, EN300 113 V2.2.1

Software installed in the object of this declaration, is under the control of the manufacturer and is not accessible by the end user.

Signed for and on behalf of Oelmann Elektronik GmbH

Dieter Buch, CEO

7 June 2021, Springe