

ball 



Rat control

**ToxProtect<sup>®</sup>**

Efficient. Innovative. Patented.







Rat control with

# ToxProtect®

Efficient. Innovative. Patented.

## Successful rat control

What this means:

- Protecting the environment from toxins
- Reduction of rodenticides by ca. 90 %
- Cost effective
- Occupational safety
- Compliant with laws and regulations

Our models **ToxProtect® 1402, 1602** and **1701** are the first systems worldwide that work with chemical agents while using cloud based technology and therefore networked rat control.


We value **reliable partnerships at eye level** as the basis for **mutual success**.

### Notice of recognition for ToxProtect® 1402

With the official letter, dated January 13 2022, it has now been confirmed: After a thorough examination, the German Federal Environmental Agency (UBA) issued the notification of recognition for our ToxProtect® 1402 product in

accordance with § 18 of the Infection Protection Act. This marks its inclusion in the list of products/processes combating health hazards caused by the Rodents II category. This covers migratory rats (*rattus norvegicus*) found in the wastewater network.

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# RAT CONTROL

350 million rats in Germany

All cities, municipalities and operators of wastewater treatment plants are legally obliged to combat rats. Rats are carriers of diseases which are dangerous to human health if transferred. In addition to this risk, rats can cause extensive damage to buildings and infrastructure.

## General conditions

Rat control is usually carried out through use of chemical agents and mechanical devices. That is why there is a legal framework that regulates the fight against rats. The use of chemical agents is standardised throughout Europe in the biocide regulation 528/2012 and is governed by the laws of the Member States (amongst others Chemicals Act, Water Resources Act, Ordinance on Hazardous Substances, Occupational Health and Safety Act & Infection Protection Act). The control of mechanical methods is provided, amongst other things, by the Animal Welfare Act and the Infection Protection Act.

According to a survey carried out by the Institute for Applied Construction Technology, up to 1,000 tonnes of rat poison is used annually in Germany alone. Rat poisons are PBT/vPBT (persistent, bioaccumulating & toxic/very persistent, bioaccumulating & toxic) substances. PBT/vPBT substances were identified, in a study by the German Federal Environment Agency for water quality, in large quantities in almost all aquatic and terrestrial areas. The findings from this study prompted the Federal Environment Agency to regulate the use of poison in the form of adoption of Risk Mitigation Measures (RMM).

For rat control in the wastewater network this means: The baits must be used in a way that they do not come in contact with water and are not washed away. Poison bait hanging on a wire in the manhole chamber is therefore not permitted. This is because the wastewater network, which as a water-carrying system has humid air conditions, exposed to heavy rain events and backwater (e.g. due to drainage) as well as the entry of surface water via the manhole cover. It is therefore impossible to protect a suspended bait from contact with (waste) water.

ball-b provides users with its ToxProtect® 1402, 1602 and 1701 models exclusively. The systems available meet the legal requirements. All ToxProtect® come equipped with a sensor and transmit information on the rat infestation to our WebService. Based on this information it is possible to control the rats both in the wastewater ways and above ground. We provide the user with an effective, economical and legally secure concept for rat control.

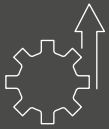


The previous handling of rat poison not only violates applicable law but the conventional methods also have many disadvantages:

- Residues are found throughout the food chain
- Biocidal pollution in the wastewater and the environment
- Poisoning of non-target animals (domestic & wild)
- High personnel/operating costs
- Damage to the image of towns and communities if the environment and non-target animals are poisoned

We offer a reliable solution for a successful and legally compliant rat control – the bait protection box.

## ToxProtect®



**Efficient** High effectiveness – relatively little effort required to achieve the optimum result.



**Connected** Rat hotspots easily identified remotely via the WebService.



**Innovative** Our ToxProtect® is designed in such a way that it is quick and uncomplicated to convert/adapt to onsite requirements.

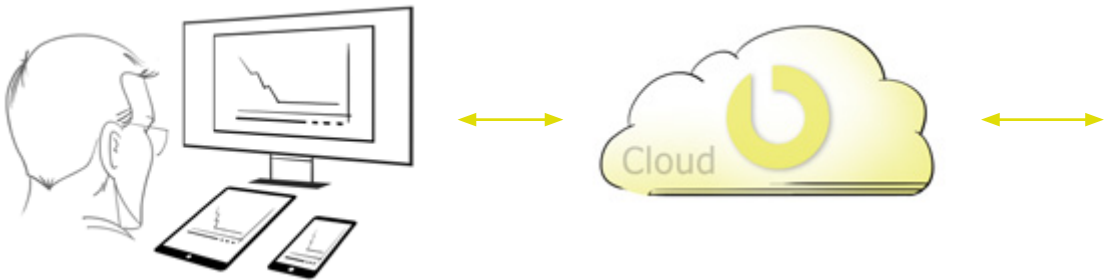


**Patented** Backwater float prevents the bait from coming into contact with water and therefore ensures effective flood protection.

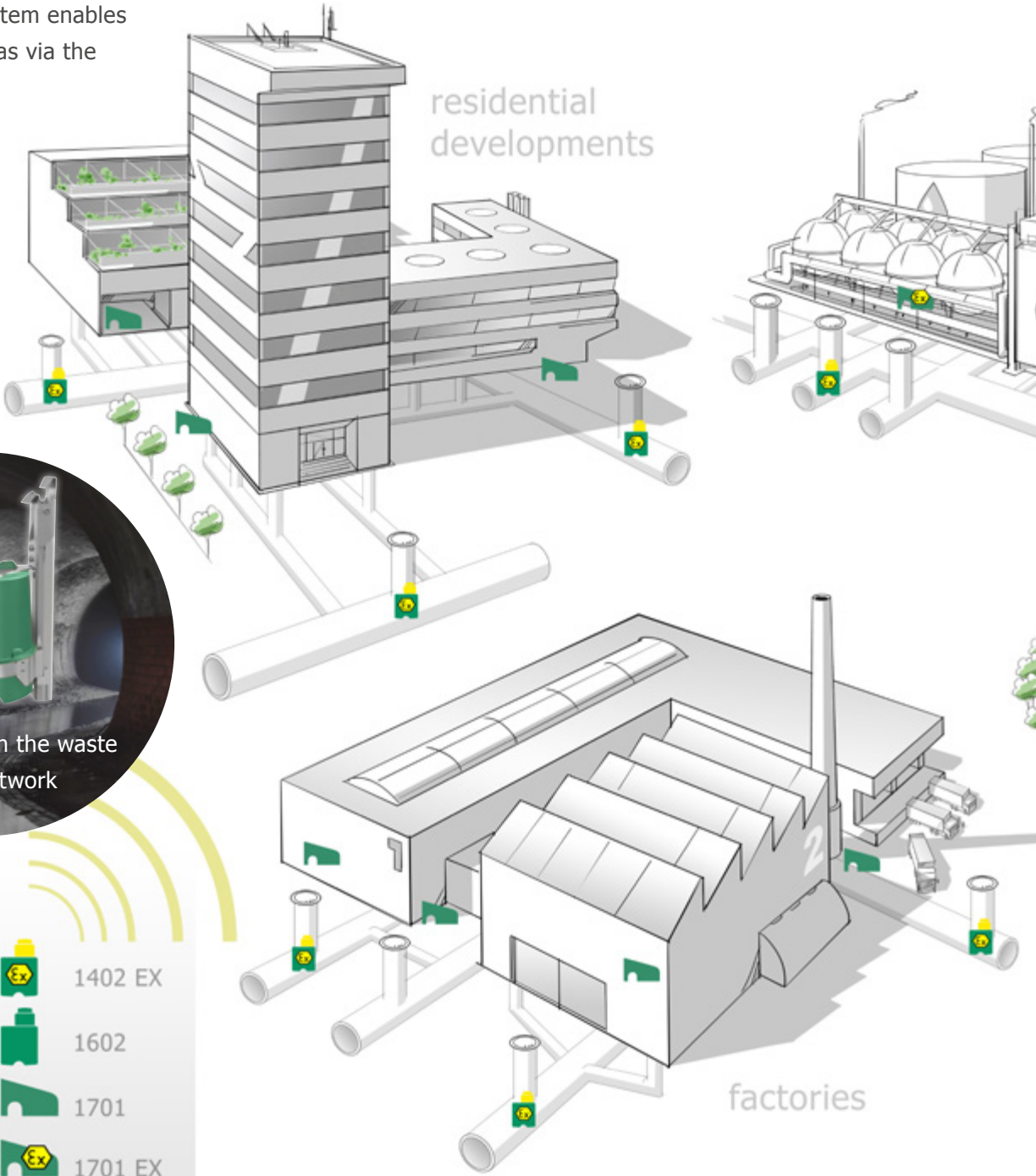






# LOCATION SUITABILITY

Efficient solutions for individual areas of application



The ToxProtect® system enables rat control in all areas via the Webservice

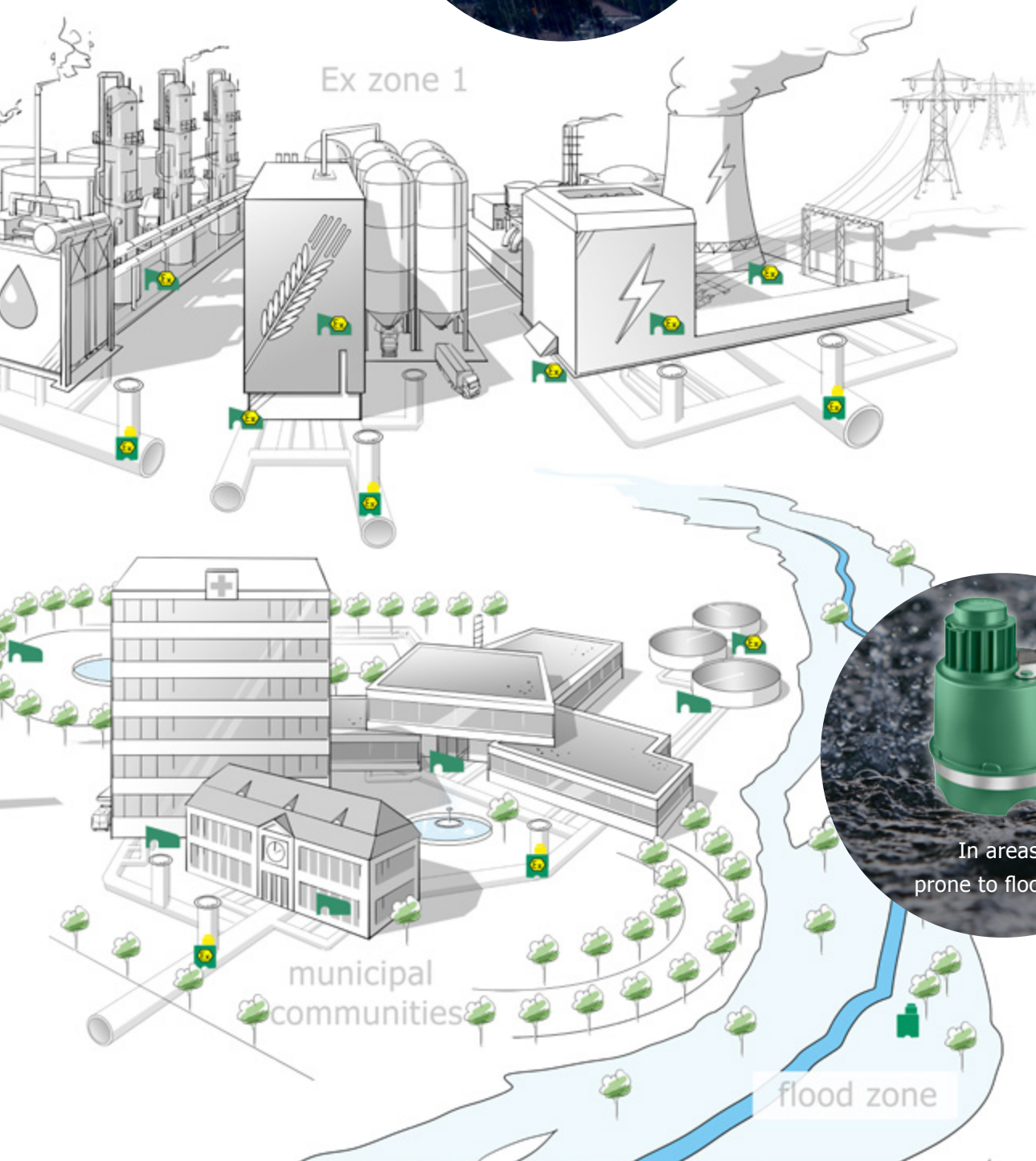


-  1402 EX
-  1602
-  1701
-  1701 EX





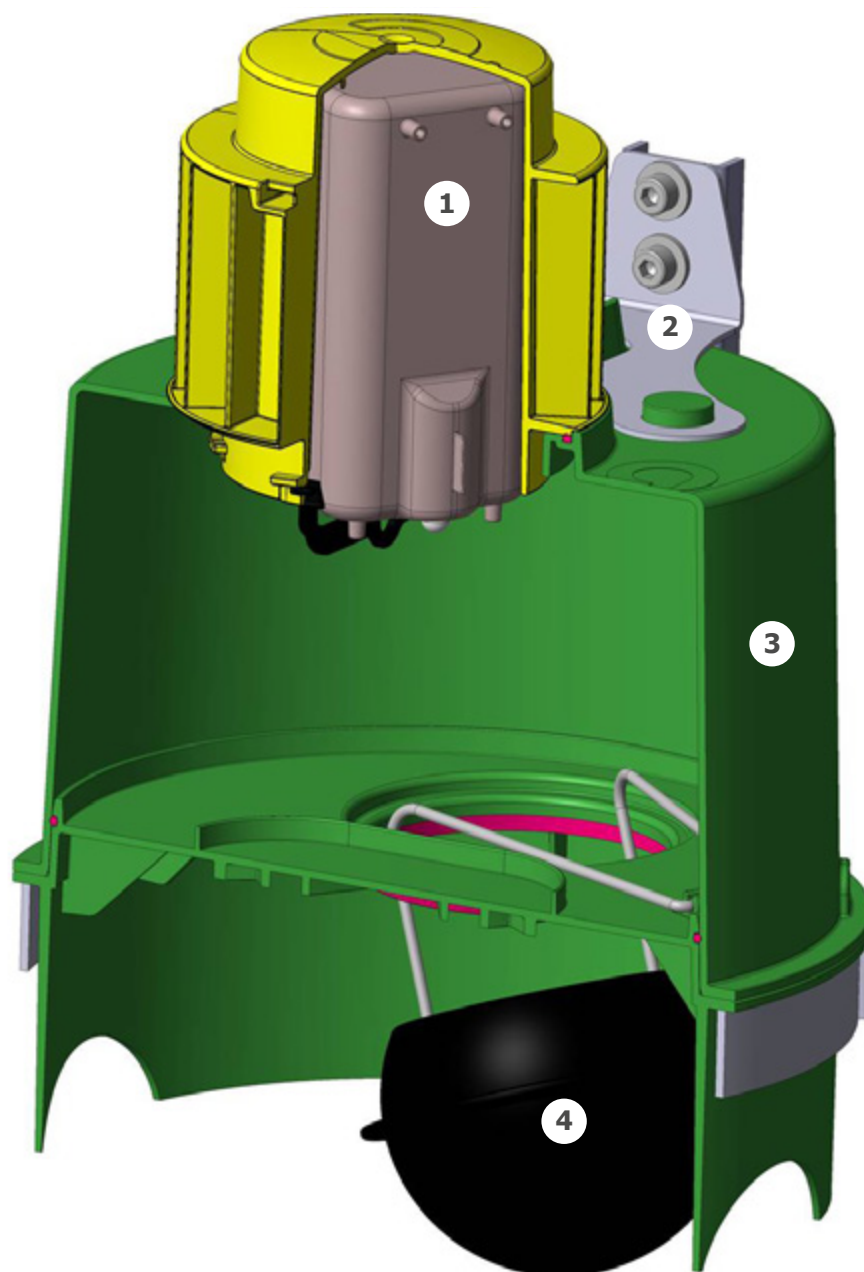
Above ground in buildings and outdoors



In areas prone to flooding

# PATENT

Functionality



The ToxProtect® is protected against the ingress of water by the backwater float. If the water level rises underground or at another location such as near a river, the backwater float of the ToxProtect® closes and seals it. When the water level returns to normal it then opens the entrance to the box so that the

bait can be reached again by the rats. Thanks to the intelligent protection technology, the patented ToxProtect® is the only solution that meets legal requirements for the use of poisonous baits in rat control.



## Patent number



DE 10 2014 102 034 B4,  
EP 3 107 383 B1

### 1 BatteryBox

Monitors the success of the rat control through radio transmission without the need to open the manhole. Easy attachment of the bait (ToxClip).

### 2 Bracket

(Made of stainless steel V4A)

Easy and quick assembly/disassembly.

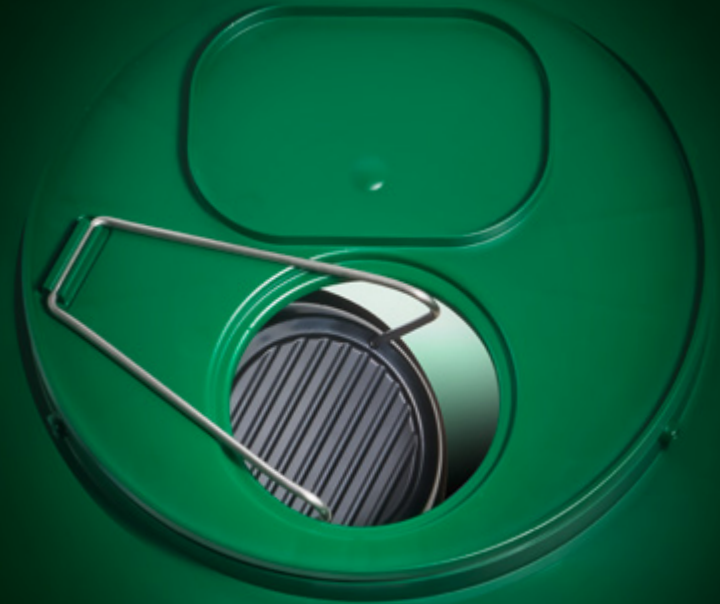
### 3 Box

Plastic housing provides a safe place for the rats to feed.

### 4 Backflow float

In the case of flooding the patented locking system prevents the water making contact with the bait.

For use in the wastewater network (ToxProtect® 1402) and for use above ground (ToxProtect® 1602).



Internal view (open)



Internal view (closed)  
Bait protected from the water

# ToxProtect® 1402

For the use in wastewater networks



ToxProtect® 1402 Ex-PF



ToxProtect® 1402 Ex-VF

## BAIT CHANGE

without manhole entry



## ASSEMBLY & BAIT CHANGE

without manhole entry







ToxProtect® 1402 Ex-MF

Easy to change location



**BAIT CHANGE & RELOCATION**

without manhole entry





# ToxProtect® 1602 | 1701

For use above ground



ToxProtect® 1602

## LOCKING SYSTEM

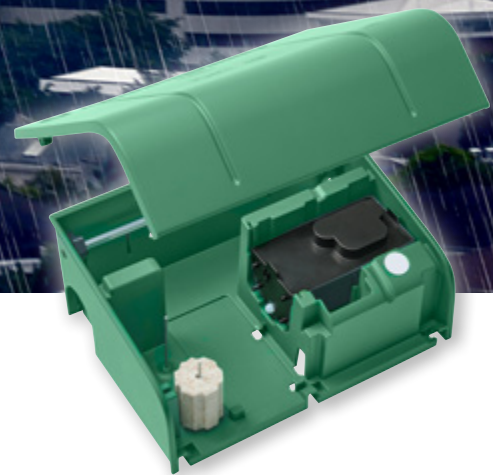
protects against unauthorised access







TrapSet optional



ToxProtect® 1701

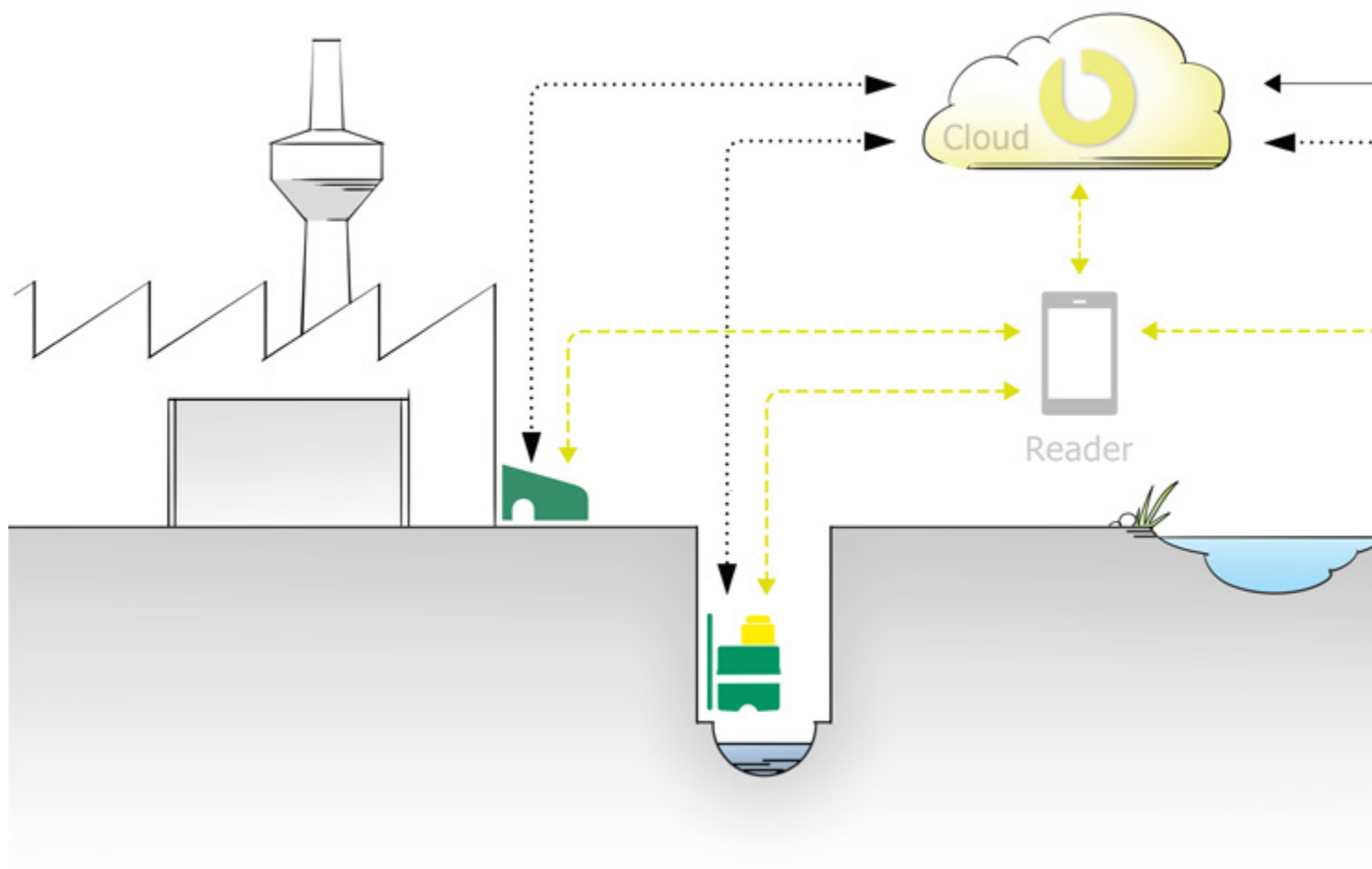
### COMBAT

with snap trap or bait



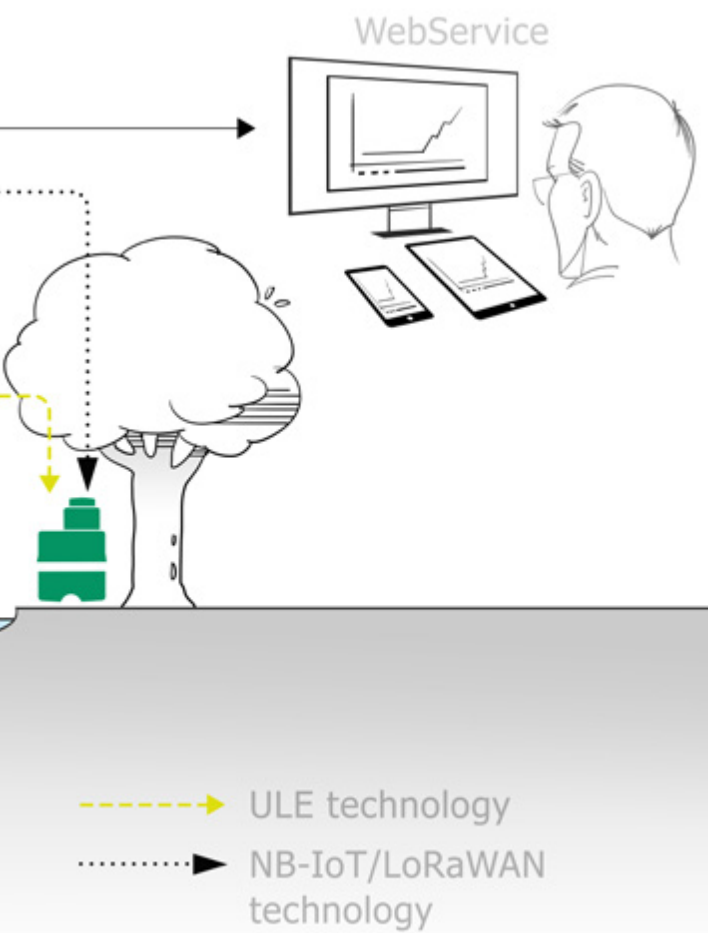
# RADIO TECHNOLOGY

Networked communication



TECHNOLOGY	ULE	NB-IoT	LoRaWAN
<b>Application</b>	Infestation detection made at the manhole with the Reader	Infestation detection is automatically sent to the cloud every 8 hours	Infestation detection is automatically sent to the cloud every 8 hours
<b>System requirements</b>	Independent of mobile networks	Dependent on Telekom network	Dependent on LoRaWAN network
<b>Combinable</b>	with NB-IoT & LoRaWAN	with ULE & LoRaWAN	with ULE & NB-IoT
<b>Battery life</b>	ca. 6–12 months	ca. 12–24 months	ca. 12–24 months
<b>Readout times</b>	after 10 days	every 8 hours	every 8 hours
<b>Radio expansion</b>	no radio expansion necessary	dependent on the network operator	dependent on the network operator





	without technology
	No infestation detection possible
	-
	with ULE, NB-IoT & LoRaWAN
	-
	-
	-

**All ToxProtect® models can optionally be equipped with ULE, NB-IoT or LoRaWAN technology. A mix of all technologies is also possible.**

**ULE technology** can be combined with the ToxProtect® in almost all installation locations, independent of an existing mobile network.

With **ULE technology** the BatteryBox communicates directly with the Reader to facilitate the exchange of data. The data exchange is always encrypted. In addition the authentication process ensures that only the Reader can exchange data with its paired BatteryBoxes.

With **NB-IoT & LoRaWAN technology**, we utilise the latest mobile radio standards. There is no requirement to visit the manholes, as the data is transmitted directly to the cloud database. The data relating to the number of visits from the rats is sent to the WebService on a daily basis. Installation/removal and bait management are still carried out via the Reader and synchronised with the WebService.

If **NB-IoT** or **LoRaWAN** is not yet available at the desired locations, we recommend a mixed approach with **ULE, NB-IoT** or **LoRaWAN**.

# WEBSERVICE

The ball-b Cloud

The Webservice is a cloud-based application which provides a cartographic overview of all ToxProtect® at a glance, so that the rat infestation can be reacted to quickly. The Cloud from ball-b enables the world's first networked rat control. In addition to the cartographic overview, the Webservice also provides a quick overview of each individual measure. This creates a rat control which is effective, economical and ecological.

The data can also be forwarded to common Geographic Information Systems (GIS) via WebAPI.



**Demo version**  
**demo.ball-b.de**

Username: Demo@ball-b.de

Password: Demo

**EINBAUORT DETAILS: 4820**

**Graph**

Von: 28.02.2019  
Bis: 28.04.2019

Schnellwahl  
Monats zurück: 1 2 3 4 5 6  
SEIT LETZTEM WECHSEL

**Karte**

**Besuche**

**861**  
Gesamtzahl der Besuche

**21**  
Besuche (letzte 14 Tagen)  
[Einbauort in Demo kopieren]

**Infos zum Köder und Einbauort**

Ködergewicht: 180.0000g  
Ködername: Difencocum  
Ködertyp: Giftköder  
Zulassungs-Nr.: 06-2012-A-14000064

Einbauort  
GPS Lat, Lon: 51.296612, 13.104090  
GPS Genauigkeit: 40,5m

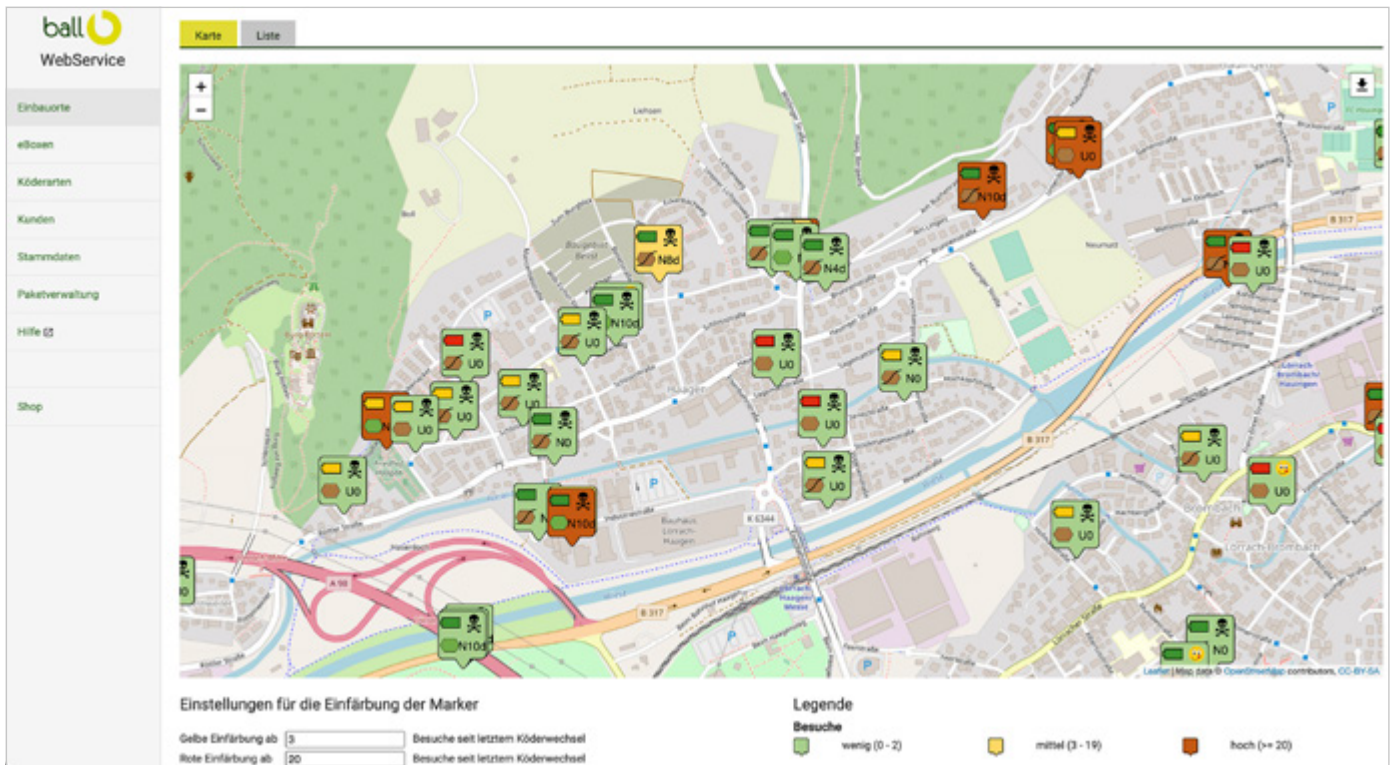
**Eingebeute eBot**

eBot-ID: 663  
eBot-Nummer: 0249651011  
eingebeut am: 04.01.2019, 13:16  
Firmware-Version: 908  
Batterie installiert: 17.01.2019, 13:54 (vor 107 Tagen)  
Batterie-Status: **2303 mV** (Defekt 25.04.2019, 12:10)

**EBOT OFFNEN**

**BEARBEITEN**





ID	Einbaort	eBox Nr.	Einbausituation	Tech.	Befestigung	Gesamtzahl Besuche	Anzahl Besuche (letzte 14 Tage)	Besuche (letzte 14 Tage)	Zuletzt ausgelesen	Nächstmögl. Auslesung	Kodemame	Kodertyp	Erstellt
3464	95160	02e9e519b1 (eingebaut am: 19.12.2018, 10:19)	Schacht	ULE	variabel	2	0		25.04.2019, 12:30	in 7 Tagen (am 26.05.2019, 12:30)	Testblock	Lockkoder	19.12.2018, 10:19
1137	4740	02e9e51aba (eingebaut am: 04.01.2018, 11:32)	Schacht	ULE	permanent	271	0		25.04.2019, 12:26	in 7 Tagen (am 26.05.2019, 12:26)	Testblock	Lockkoder	04.01.2018, 11:22
1139	4940	02e9e51b19 (eingebaut am: 04.01.2018, 13:02)	Schacht	ULE	permanent	940	3		25.04.2019, 12:21	in 7 Tagen (am 26.05.2019, 12:21)	Kanal-Diskus	Giftkoder	04.01.2018, 13:02
1140	4820	02e9e51b1f (eingebaut am: 04.01.2018, 13:14)	Schacht	ULE	permanent	861	21		25.04.2019, 12:10	in 7 Tagen (am 26.05.2019, 12:10)	Difenacoum	Giftkoder	04.01.2018, 13:16
391	5540	02e9e51b1b (eingebaut am: 04.01.2018, 09:49)	Schacht	ULE	permanent	174	2		25.04.2019, 12:01	in 7 Tagen (am 26.05.2019, 12:01)	Difenacoum	Giftkoder	16.03.2017, 15:16
1280	7890	02e9e51ae7 (eingebaut am: 18.02.2018, 10:38)	Schacht	ULE	permanent	238	1		25.04.2019, 11:53	in 7 Tagen (am 26.05.2019, 11:53)	Testblock	Lockkoder	15.02.2018, 10:58
1282	115100	02e9e519f8 (eingebaut am: 19.12.2018, 09:20)	Schacht	ULE	permanent	290	0		25.04.2019, 11:32	in 7 Tagen (am 26.05.2019, 11:32)	Difenacoum	Giftkoder	15.02.2018, 13:17
1283	119060	02e9e519e2 (eingebaut am: 18.02.2018, 13:24)	Schacht	ULE	permanent	400	0		25.04.2019, 11:27	in 7 Tagen (am 26.05.2019, 11:27)	Difenacoum	Giftkoder	15.02.2018, 13:34
2999	7980	02e9e51ae6 (eingebaut am: 27.09.2018, 14:17)	Schacht	ULE	permanent	181	4		25.04.2019, 11:17	in 7 Tagen (am 26.05.2019, 11:17)	Difenacoum	Giftkoder	27.09.2018, 14:17
2402	739	02e9e519ee (eingebaut am: 21.06.2018, 11:07)	Schacht	ULE	permanent	134	4		25.04.2019, 10:55	in 7 Tagen (am 26.05.2019, 10:55)	Difenacoum	Giftkoder	21.06.2018, 11:07
1285	148120	02e9e51aed (eingebaut am: 18.02.2018, 14:13)	Schacht	ULE	permanent	805	28		25.04.2019, 10:38	in 7 Tagen (am 26.05.2019, 10:38)	Difenacoum	Giftkoder	15.02.2018, 14:13
2408	148070	02e9e51a19 (eingebaut am: 21.06.2018, 11:25)	Schacht	ULE	permanent	345	0		25.04.2019, 10:27	in 7 Tagen (am 26.05.2019, 10:27)	Difenacoum	Giftkoder	21.06.2018, 11:25

# ToxProtect® 1402

Product information



## Advantages

- ✓ A ToxProtect® covers an area of between 250 and 500 metres
- ✓ ca. 90 % less poison used
- ✓ Reduction in operating costs due to savings in working hours
- ✓ Thanks to the patented closure system the bait does not come in contact with any water
- ✓ Monitoring of rat visits through radio technology
- ✓ Legally compliant
- ✓ Easy accessibility for rats (good acceptance)

## Use

When used in the wastewater network, the ToxProtect® bait protection box protects the bait from contact with the water. It sends data about the visits as well as the documentation of bait to the Web-Service. If the water level rises, the backwater float closes the ToxProtect® so the bait stays dry.

The bait can be easily exchanged from above without entry into the manhole chamber using the Telescope-stick. The rats can then feed on the attached bait inside the box.



# PermanentFix | VarioFix | MultiFix

## Variants



### PermanentFix

#### Part No.:

14100 without tech.  
14102 with ULE  
14104 with NB-IoT  
14230 with LoRaWAN

### VarioFix

#### Part No.:

14231 without tech.  
14232 with ULE  
14233 with NB-IoT  
14234 with LoRaWAN

### MultiFix

#### Part No.:

14211 without tech.  
14206 with ULE  
14209 with NB-IoT  
14210 with LoRaWAN

VARIANT	PermanentFix	VarioFix	MultiFix
<b>Manhole chamber</b>	For standard manholes & unique structures	Only for standard manholes DN 800, 1000, 1200, 1500	For standard manholes & unique structures
<b>Assembly</b>	By securing, through drilling, a fixed bracket onto the chamber wall	From above with 1 person, ca. 1 minute	Drilling into the chamber wall and locking into place from above
<b>Relocation</b>	Separate rails allow for easy relocation	It is just as quick to remove as it is to relocate/reinstall	Separate rails enable easy relocation. The ToxProtect® is removed and reinstalled from above
<b>Bait loading</b>	From above without entry into the chamber	From above without entry into the chamber	From above without entry into the chamber

# ToxProtect® 1602

Product information



## Advantages

- ✓ Used near bodies of water
- ✓ Easy to change bait
- ✓ Assembled using mounting rails
- ✓ Separate mounting rails allow for easy relocation
- ✓ Protected against backwater flow thanks to the patented closure system
- ✓ Secure locking system

## Use

The ToxProtect® 1602 is a bait protection box that protects the bait from contact with water and provides data on the rat control carried out. The ToxProtect® 1602 is used near bodies of water and in areas at risk of flooding and the rats can feed on the bait placed inside. The visits from the rats and the documentation of the steps taken to combat them are recorded by the ToxProtect® and made available in the WebService. If the water rises the backwater float will open and close in accordance with the water level so the bait stays dry. This also allows the bait to be protected from unauthorised access.

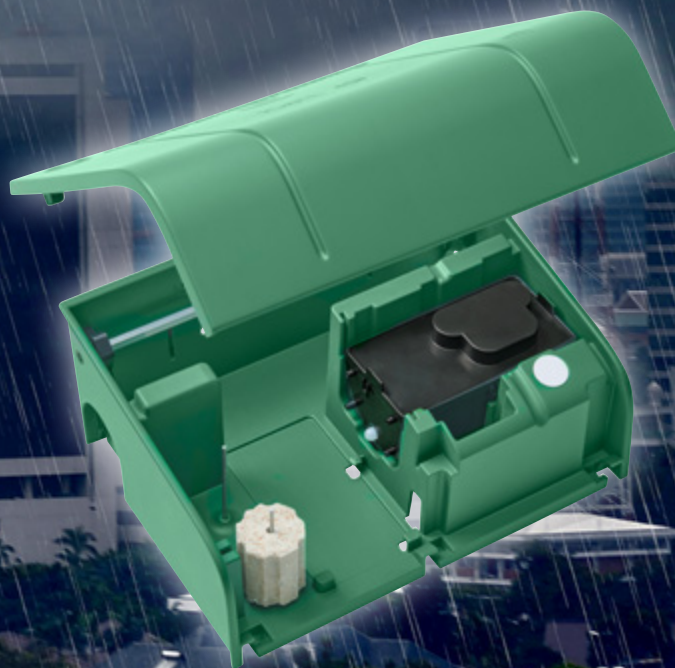
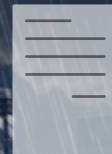
### Part No.:

14106 without tech.  
14107 with ULE  
14108 with NB-IoT  
14229 with LoRaWAN



# ToxProtect® 1701

Product information



## Advantages

- ✓ Control carried out with bait and electronic monitoring
- ✓ Suitable for both indoors and outdoors
- ✓ Secure locking system
- ✓ Suitable for Ex-protection Zone 1
- ✓ Wall adapter = QuickFix assembly/disassembly of the ToxProtect®

## Use

The ToxProtect® 1701 can be used both indoors and outdoors. It can be equipped with both a snap trap or poison bait. The visits from the rats are recorded by the ToxProtect® and are made available in the WebService.

When an animal triggers the snap trap (when this feature is equipped), a message is sent to a mobile phone. The bait is also protected from unauthorised access thanks to a secure locking system.

### Part No.:

- 17001 without tech.
- 17002 with ULE
- 17003 with NB-IoT
- 17004 with LoRaWAN

# Ex-PROTECTION

Zone 1



The biological degradation of organic substances by microorganisms already begins underground in the wastewater network, which means 'sewer gases' such as methane, carbon dioxide and hydrogen sulfide can form.

In wastewater systems, it must be expected that a dangerous, explosive atmosphere will occasionally occur so the **Ex-protection Zone 1** is formed.

We have certified our electronic components within our BatteryBox according to ATEX & IECEX. This certification offers users the greatest possible protection and provides job security. This makes the ToxProtect® models the only systems that are Ex-protection Zone 1 approved.



Insert battery pack



Slide the BatteryBox into the housing





# Accessories

## Clever additions

### 1 Reader

The Reader is a data acquisition and read out device. The Reader communicates with the BatteryBox to document the installation location, bait management, infestation detection and battery status.

With ULE, the reader is used to read the stored data from the BatteryBox and to transfer it to the Webservice via the Cloud.

### 2 MoveStick

The MoveStick is used for quick and safe use when changing the bait or installing/removing the ToxProtect® 1402 with the VarioFix or MultiFIX.

The MoveStick and its accessories have been developed for robust use in the wastewater systems.

### 3 Key

The secure locking system of the ToxProtect® 1602 and 1701 protects the bait from any unauthorised persons.

### 4 QuickFix = Wall adapter

For quick and safe attachment/removal of the ToxProtect® 1701 on buildings/walls.

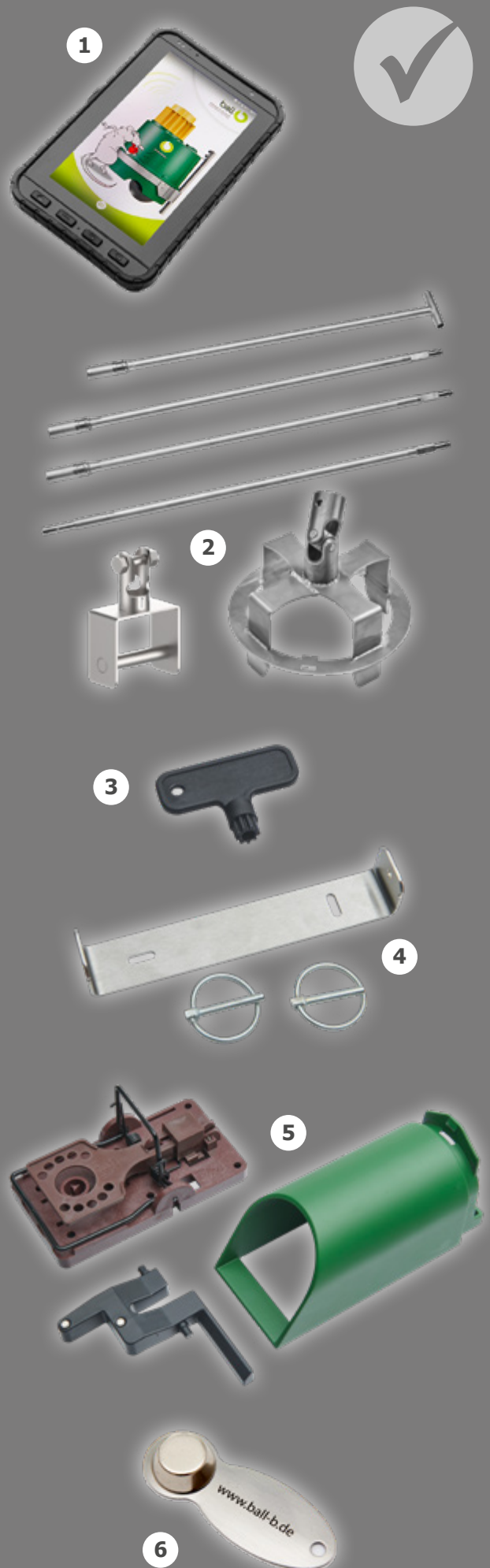
### 5 TrapSet

The ToxProtect® 1701 can be equipped and operated with a snap trap.

When an animal triggers the snap trap, a message is sent to a mobile phone (only possible with NB-IoT or LoRaWAN technology).

### 6 Magnet

For registering and managing the BatteryBox with ULE technology.



# INDIVIDUAL SOLUTIONS

Overview of product variants | Accessories for basic equipment

## For use in the wastewater networks – PermanentFix

### Part No. Bait protection boxes

14102 ToxProtect® 1402UEx-PF  
with ULE technology

14104 ToxProtect® 1402NEx-PF  
with NB-IoT technology

14230 ToxProtect® 1402LEx-PF  
with LoRaWAN technology

14100 ToxProtect® 1402-PF  
without technology

### Part No. Necessary accessories\*

14126 BatteryBox-Grip G1

14133 MoveStick

14192 eBox-Grip G4

15024 Reader 1504  
incl. wrist strap

14124 Magnet  
only for ULE technology

15038 WebService-EntryCity mth.

## For use in the wastewater networks – VarioFix & MultiFix

### Part No. Bait protection boxes

14206 ToxProtect® 1402UEx-VF  
with ULE technology

14209 ToxProtect® 1402NEx-VF  
with NB-IoT technology

14210 ToxProtect® 1402LEx-VF  
with LoRaWAN technology

14211 ToxProtect® 1402-VF  
without technology (for manholes from Ø 0,80–1,50 m)

14232 ToxProtect® 1402UEx-MF  
with ULE technology

14233 ToxProtect® 1402NEx-MF  
with NB-IoT technology (incl. 10 years flat rate)

14234 ToxProtect® 1402LEx-MF  
with LoRaWAN technology

14231 ToxProtect® 1402-MF  
without technology

### Part No. Necessary accessories\*

14126 BatteryBox-Grip G1

14133 MoveStick

14192 eBox-Grip G4

14194 Vario-Grip G2

15024 Reader 1504  
incl. wrist strap

14124 Magnet  
only for ULE technology

15038 WebService-EntryCity mth.





### For use above ground

#### Part No. Bait protection boxes

14106 ToxProtect® 1602  
without technology

14107 ToxProtect® 1602U  
with ULE technology

14108 ToxProtect® 1602N  
with NB-IoT technology

14229 ToxProtect® 1602L  
with LoRaWAN technology

#### Part No. Necessary accessories\*

14126 BatteryBox-Grip G1

15024 Reader 1504  
incl. wrist strap

14124 Magnet  
only for ULE technology

15038 WebService-EntryCity mth.

### For use above ground

#### Part No. Bait protection boxes

17001 ToxProtect® 1701  
without technology (incl. 1 key per box)

17002 ToxProtect® 1701U  
with ULE technology

17005 ToxProtect® 1701UEx  
with ULE technology + Ex-protection

17003 ToxProtect® 1701N  
with NB-IoT technology

17006 ToxProtect® 1701NEx  
with NB-IoT technology + Ex-protection

17004 ToxProtect® 1701L  
with LoRaWAN technology

17007 ToxProtect® 1701LEx  
with LoRaWAN tech. + Ex-protection (incl. 1 key per box)

#### Part No. Necessary accessories\*

15024 Reader 1504  
incl. wrist strap

14124 Magnet  
only for ULE technology

15038 WebService-EntryCity mth.

17027 QuickFix  
wall mounting

17026 TrapSet  
only for NB-IoT- & LoRaWAN technology

\* Required accessories only necessary for initial purchase!

# References

## Customer testimonials

„In ball-b we have found a partner with whom we can jointly offer modern rat control systems, the likes of which are not found anywhere else.“

Alexander Herrling,  
**Rockstroh GmbH**

„We have been working with the ToxProtect 1402 in the wastewater systems since 2017 and have saved more than 850 kg of rodenticides every year. This corresponds to about 96 % fewer active substances than before 2017. Since 6 months we have also been working with the ToxProtect 1701 and thus receive the information electronically where the rats are located (in the wastewater network or above ground). Both systems show the rat infestation in the WebService and therefore support effective, economic and ecological rat control.“

Volker Plump,  
**Eigenbetrieb Stadt Lörrach**

„With the VarioFix system, the bait protection box can be easily installed and quickly re-positioned as required.“

Ludger Wördemann,  
**Stadt Rheda-Wiedenbrück**

„With one click I can get an overview of all bait locations and the current rat population. This is unique.“

Torsten Fick,  
**EVB Entsorgungs- u. Verkehrsbetriebe  
Wismar**

„Due to the ease of assembly, evaluation and maintenance, we have been able to reduce the amount of work and significantly reduce the use of toxic substances.“

Peter Jahn,  
**Abwasserverband „Untere Döllnitz“**

„Since using ToxProtect, we have a precise picture of the rat population in our wastewater network and can combat the hotspots in a targeted manner.“

Martin Prühl,  
**Stadt Dettelbach,**

„With the help of the bait protection boxes, we have significantly reduced the use of poisons and at the same time gained in effectiveness.“

Marco Steinfeld,  
**Stadt Bad Kissingen**





„The time saved is enormous. Thanks to the networked ToxProtect, I no longer have to drive around our 40 sites for monitoring. That used to be a huge effort, but now I can do it comfortably on my computer in just a few minutes.“

Markus Vollmer,  
**ED Netze GmbH**

„Rat poisons are a great danger for humans and the environment. With the ball-b bait protection boxes we make an important contribution to the sustainable handling of these poisons“.

Kai Finken,  
**Osterholzer Stadtwerke GmbH & Co. KG**

„A super system for pest control from Nuremberg, which supports us in our daily work in the best possible way – from professionals for professionals“.

Thomas Berger,  
**Abwasserverband Oberer Rheingau**

„ball-b is an innovative company that maintains a cooperative relationship with its customers and always has its' finger on the pulse.“

ToxProtect is an outstanding product that has reduced the use of toxins at the Fulda Waste-water Association by almost 90 % and the use of personnel by approx. 60 %. The AWW Fulda is eager to see what innovative, new solutions and products ball-b will surprise us with in the future and we will accompany all developments positively.“

Peter Geffe,  
**Abwasserverband Fulda**

„The solution from Nuremberg has proven itself in daily use and we are enthusiastic about the overall solution consisting of hardware and software.“

Björn Griener,  
**Dienstleistung & Handel Wehr**

„Thanks to the unique sensor technology, we can now determine exactly where, and how large, the actual rat population is.“

Roland Gäbler,  
**Stadtwerke Görlitz**







# CONTACT

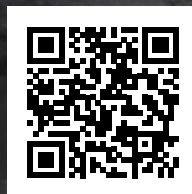
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