

Installation- and Operating Instructions

radio code lock TORCODY RS 433 and RS 868





General warning- and safety notes

Mounting

- **Installation, connection, adjustments, putting into operation, and servicing may only be carried out by trained professionals in full accordance with these installation- and operating instructions.**
- **Before carrying out works at receiver, the power supply has to be turned off.**
- Switch on power supply only after repeated control !
- Never feed 230V power supply to low voltage input - This will destroy your unit, no guarantee.
- Please consider polarity for d.c. use !
- **Radio code lock TORCODY features the protection class IP54 and is adapted for outdoor use.**
- Protect the transmitter against wetness, damp, high humidity, dust or direct solar radiation. Don't store the transmitter exposed to sunlight for longer time.
- Used batteries should not be placed in the household waste!.

Safety

- Store transmitters out of children's reach (risk of suffocation through small parts, risk of injury through unintended operation of the gate facility)
- If the battery is swallowed by a child immediately call a doctor!
- Don't use the transmitter in explosion hazardous areas and also in areas, where the usage of radio systems (e.g. mobile phones,...) is forbidden.
- The Tousek transmitters may only be used for devices and facilities, where no danger for persons or things arises from a malfunction of transmitter or receiver, or where this risk is covered by other safety devices.
The remote controlling of devices and plants with an increased accident risk (e.g. crane facilities) is forbidden!
- For safe operation the local valid safety regulations for the plant have to be kept!
- The owner/user has to be informed that facilities with an increased accident risk may only be operated at direct intervisibility.

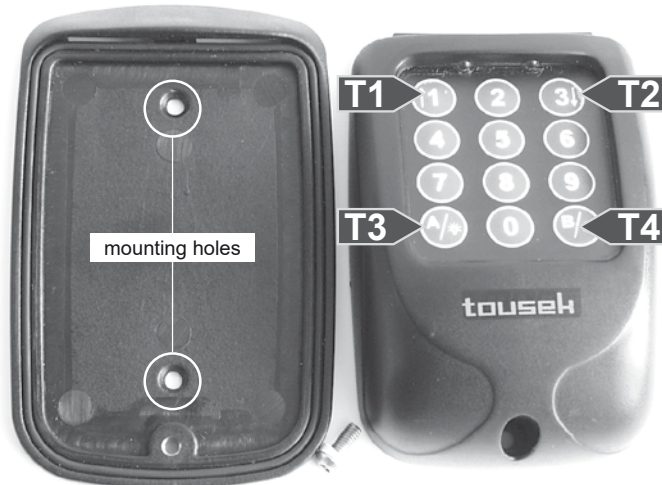
Technical specifications

- Compatible with radio system RS 433 or RS 868
The transmitter code is altered each time a command is emitted (Rolling Code). Due to this continuous alteration of the code, each code can be used only one time and so an abuse through scanning is debarred.
- 5-digit code freely programmable (with button M1)
- 4 radio channels, 3 of which can be transmitted after entering the proper code. The fourth channel can be directly transmitted without a code (e.g. for activating a door bell).
- Surface-mounted plastic housing with special screw to protect against theft of the device
- Foil-membrane-keypad
- Buzzer which sounds upon pressing any key and indicates entry of the proper code
- Lighted keypad: After pressing any key 2 LEDs light up the keypad for 5s
- Power supply: 9V alkaline battery
- Low battery warning



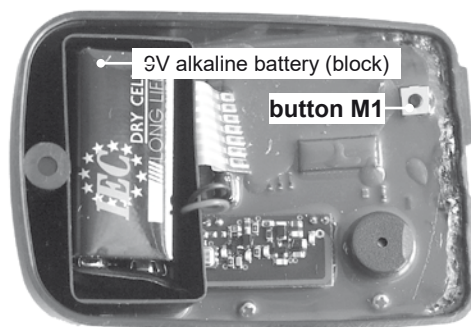
Mounting and changing of battery

- Before installing the Torcody or replacing the battery please open the housing with the enclosed hexagon socket screw key.
- On the back plate of the code lock there are two holes for fixing it to a surface with screws and plugs.



Low battery warning

If the battery voltage drops below 6V and a key is pressed the **LEDs will flash intermittently** instead of lighting up continuously, thereby indicating that the battery needs to be replaced.



We reserve the right to change dimensions and technical specifications without prior notice.

Technical data

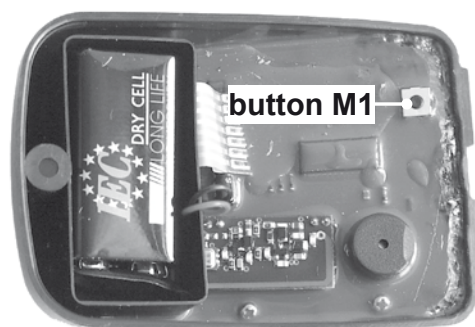
TORCODY	RS 433	RS 868
housing colour / article code	black / 13170030 white / 13170050	black / 13170080 white / 13170090
frequency	433,92 MHz	868,3 MHz
bandwidth	>25 KHz	>25 KHz
tolerance zone	± 75 kHz	+/-10 ppm
radiated power	-10 ÷ -7 dBm (100-200 µW)	-3 ÷ 1dBm
modulation	AM/ASK	FSK
average current consumption	15mA	15mA
operating temperature	-30°C to +60°C	-30°C to +60°C
supply voltage	9V alkaline battery (block)	9V alkaline battery (block)
protection class	IP54	IP54



- The radio code lock Torcody is designed like a 4-channel transmitter and operates exclusively in combination with the Tousek radio system RS 433 or RS 868 and does not have any output terminals.
- The transmitter buttons **1** =T1, **3** =T2, **A** =T3 only transmit a signal after the **proper 5-digit authorisation code** (digits **0** to **9**) has been entered.
- The transmitter button **B** is always active and transmits a radio signal without requiring the prior input of a code. - e.g. for activating a door bell or lamp.

Input of the 5-digit authorisation code:

- Each time a key is pressed the buzzer will sound shortly and the keypad will stay active **for 5 sec.** (indicated by the two LEDs which light up). Subsequent numbers must be entered within these 5 sec. or the keypad will return to the inactive state. In such a case the code numbers entered up to then will no longer be relevant and the user has to enter the complete 5-digit code all over again.
- The buzzer of the Torcody code lock will indicate that the **proper code** has been accepted by emitting a **continuous sound**.
- For protection against unauthorised reading of the code at input by a person standing nearby Torcody permits the pressing of 20 numbers in a row.
- If the proper 5-digit code sequence is not among these 20 numbers the device will not accept any further entries. This will be indicated by the buzzer with **3 short sounds** for each additional pressing of a key.
- If this operation state has been reached, entering the proper code all over from the beginning will only be possible after the Torcody has switched off and **no key has been pressed for approx. 30 sec.**
- If the proper 5-digit code has been entered, the **TORCODY will be active for 5 sec.** Now the keys **1** =T1, **3** =T2, **A** =T3 can be pressed, and the corresponding radio signal will be transmitted and a certain channel of the used receiver will be activated.
- **When pressing a transmitter button the receiver only reacts when this certain button has already been memorized in the desired radio receiver.**



Programming the authorisation code

- Enter the factory-preset 1-2-3-4-5 code.
- Then press the **button M1** (located within the housing of the device on the back of the keypad; *see picture*).
- Now enter the **new 5-digit code** and **repeat** the input of the 5-digit code **within 1 s.**
- Torcody will signal the successful memorising of the new code with a **3 s continuous sound**.
- **ATTENTION: Note the new code and keep it in a safe place!**



Important

- **Before the device can be set into the programming mode the currently valid code has to be entered.**
- **The factory-preset code is 1-2-3-4-5.**
- **It should, of course, be changed by the user when putting the system into operation**
- **Note the new code and keep it in a safe place!**

Memorising the TORCODY in a radio receiver

In addition to programming the 5-digit code, the transmitter buttons has to be memorised in the desired radio receiver:

- Enter the valid 5-digit authorisation code
- Set receiver to memorising mode (*see corresponding receiver manual*)
- immediately afterwards press the according button (which should ne memorised) **1**, **3**, **A** or **B** and hold it until the receiver confirms the successful memorising through sequent sounds.

For allocation of the transmitter buttons (**T1= 1**, **T2= 3**, **T3= A**, **T4= B**) to the channels (function) *see corresponding receiver manual*)



Note

- For safety reasons the Torcode RS433 and RS868 code lock is not equipped with a memorising button.
- The memorising mode has to be activated at the receiver (*see corresponding receiver manual*).

3. Troubleshooting

Radio code lock TORCODY RS 433 and RS 868

Problem	Possible cause	Check
relay of the receiver doesn't switch after emitting a command	no power supply	check power supply
	transmitting key not memorized	<i>see instructions for memorizing and deleting of new transmitters in the respective receiver manual</i>
	TORCODY defective	check battery, resp. let TORCODY be controlled
transmitter only has a small range of transmission	battery empty	check battery
	Faulty installation of antenna. Antenna not or wrong connected	<i>see instructions for connection of antenna</i>

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