

# ***WiPro III***



## **Operating instructions**

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### 1.1 Functional description

The WiPro III alarm system has been developed especially for recreational vehicles. This system does not use motion sensors, which have to be deactivated when the vehicle is staying somewhere and are often the cause of false alarms. The result is a thoroughly user-friendly alarm system which is operated at the touch of a button and is practically immune to false alarms.

The interior is secured via wireless magnetic contacts on the doors, windows and hatches. All doors, sliding doors, rear doors and, if necessary, the front lid monitored by the CAN bus are secured by the CAN bus connection. The cab doors on vehicles without a CAN bus are secured by the interior lighting.

The system is operated via the original remote key fob or the Thitronik wireless remote control, depending on the vehicle concerned. If a secured opening is opened while the alarm system is armed, WiPro will indicate this by switching on the integrated siren, sounding the horn (not with all vehicle types) and activating the hazard indicators. The alarm is active for the legally permissible period of 30 seconds for the horn and siren and 120 seconds for the hazard indicators. After expiration of the legally stipulated maximum duration, WiPro III is automatically armed again.

## 1. Handling the system



Please read the following instructions carefully to avoid faulty operation.



### 1.1 Controlling the system with the remote key fob



The "Lock" button arms the system.  
Only possible with the vehicle doors closed.

*The vehicle indicators flash once or twice (depending on the vehicle type), the interior beeper sounds once and the status LED starts to flash.*



*If the interior beeper makes a series of beeps when locking the vehicle, one or more wireless contacts are open but the system still arms itself (see 1.4 ventilation function).*



The "Unlock" button disarms the system.

*The vehicle indicators flash once or twice (depending on the vehicle type), the interior beeper sounds twice and the status LED stops flashing.*

### 1.2 Controlling the system using a wireless remote control



Any button arms the system.

*The vehicle indicators flash once, the interior beeper sounds (depending on button) once and the status LED starts to flash.  
The circuit will still be armed even if the original vehicle doors are open.*



Any button disarms the system.

*The vehicle indicators flash twice, the interior beeper sounds (depending on button) twice and the status LED stops flashing.*

### 1.3 Activating the panic alarm

If you feel threatened while you are in the vehicle, use the panic alarm function to draw attention. With a panic alarm, the siren, indicators and horn are activated depending on the type of vehicle.

If a Pro-finder is connected, an emergency SMS with the last known position will be sent to all destination numbers. A panic alarm can be activated with the system armed or disarmed.



The panic alarm is activated by pressing both buttons on the wireless remote control simultaneously.



The panic alarm is deactivated by pressing any button on the wireless remote control.

## 1.4 "Open contact" signal (ventilation function/ vent check)

*When locking or activating the ignition, the interior beeper emits a series of short beeps. This means that the system has detected that one of the wireless magnetic contacts is open.*



*If none of the contacts have been opened intentionally, check all the secured openings.*

Unlike a passenger vehicle alarm system, in a motor caravan or caravan, you might well want to leave a window open while all the other secured openings are monitored. For example, if you need to ventilate the vehicle. Read the following to see how this can be done.



Open the window you want to and activate the system as previously described under Point 1.1 or 1.2.



*When locking, the interior beeper emits a series of short beeps. However, the alarm is armed and monitors all the remaining contacts and the drivers cab.*



If the window is closed while the system is activated, the alarm is not triggered. The alarm does not sound until at least 5 seconds have elapsed before a window is opened again.



## 1.5 "Transmitter battery low" signal

*When triggering a radio component, the interior beeper emits a long continuous beep.*



This means that one of the batteries of a wireless transmitter is low and must be replaced. This may be the battery of a wireless magnetic contact, a wireless handheld transmitter or a cable loop.



Each transmitter must be triggered to determine which one it is. The red "transmit LED" of the one concerned will go out after approx. 30 seconds. Changing the battery, see 1.6.



## 1.6 Changing the transmitter battery

### Caution!

**Risk of explosion if battery is incorrectly replaced!**

**Dispose of used batteries according to the instructions.**

The memories of the transmitters are not volatile, i.e. once assigned, transmitters do not have to be re-assigned after the battery has been changed.



To prevent the electronics from being damaged from static discharge, earth yourself by touching an earthed part of the vehicle (door hinges or negative contact of the cigarette lighter).

### 1.7 Changing the handheld transmitter battery

- Unscrew the screw on the back of the handheld transmitter and open the casing.
- Remove the printed circuit board and remove the battery.
- Replace the battery with one of the same type (CR2032)
- When inserting the battery, make sure that the polarity is correct.  
!!! Follow the labelling on the battery holder !!!

### 1.8 Changing the transmitter battery of the magnetic contact

- Open the casing by gently levering up by the notch on the narrow side of the casing.
- Remove the printed circuit board and remove the battery.
- Replace the battery with one of the same type (CR2032)
- When inserting the battery, make sure that the polarity is correct.  
!!! Follow the labelling on the battery holder !!!

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### 1.9 Changing the transmitter battery of the cable loop

- Unscrew the 2 screws on the bottom of the cable loop and open the casing.
- Remove the battery without pulling out the printed circuit board.
- Replace the battery with one of the same type (CR2032)
- When inserting the battery, make sure that the polarity is correct.  
!!! Follow the labelling on the battery holder !!!
- Insert the black seal in the casing cover and screw the casing closed.
- Only tighten the screws lightly so as not to crush the seal too much.

#### 1.9.1 Sequence of a burglary alarm

If an opening which is secured with a wireless magnetic contact is opened, a cable loop is cut or removed from its holder or a cab door is opened **(if connected to the input for the interior lighting not possible until at least 60 seconds after arming the system!!)** when the system is armed, it will display this as a burglary alarm.



*The siren and the horn (depending on the vehicle type) sound(s) for about 30 seconds.*



*The vehicle indicators flash for about 180 seconds.  
The status LED flashes for about 180 seconds.*

After completion of the alarm cycle and an alarm pause of about 30 seconds, WiPro is armed again and responds to attempted intrusions as described above.

### 1.9.2 Sequence of a gas alarm

If an assigned wireless gas alarm sends out an alarm signal because a critical gas concentration has been reached, or a gas alarm which is connected to the gas alarm input gives an alarm, this will signal an alarm whether the system is armed or not.



*The siren sounds for about 30 seconds with short interruptions. Depending on the vehicle type, the horn also sounds for about 30 seconds.*



*The vehicle indicators flash for about 180 seconds. The status LED flashes for about 180 seconds.*

If the cause of the alarm is not eliminated (critical gas concentration), the vehicle indicators and the status LED will start to flash again until the gas concentration has reached a non-critical level.

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### 1.9.3 Interrupting a burglary alarm with the remote key fob



The "unlock" button interrupts the alarm or disarms the system. It may be necessary to close the cab doors, depending on the vehicle type.

*The vehicle indicators flash once or twice (depending on the vehicle type), the interior beeper sounds 1 long and 2 short tones (disarmed). Status LED flashes to indicate the corresponding cause of the alarm (see Page 6).*

### 1.9.4 Interrupting a gas alarm with the remote key fob:



The "unlock" button interrupts the alarm or disarms the system. If the alarm is triggered with the system disarmed, the latter must be armed first (see 1.1) in order to interrupt the alarm afterwards with "unlock". It may be necessary to close the cab doors, depending on the vehicle type.

*The vehicle indicators flash once or twice (depending on the vehicle type), the interior beeper sounds 1 long and 2 short tones (disarmed). Status LED flashes to indicate the corresponding cause of the alarm (see Page 6).*

### 1.9.5 Interrupting a burglary alarm with the wireless remote control:



Any button interrupts the alarm or disarms the system. It may be necessary to close the cab doors, depending on the vehicle type.

*The vehicle indicators flash once or twice (depending on the vehicle type), the interior beeper sounds 1 long and 2 short tones (disarmed). Status LED flashes to indicate the corresponding cause of the alarm (see Page 6).*

### 1.9.6 Interrupting a gas alarm with the wireless remote control



Any button interrupts the alarm or disarms the system.

If the alarm is triggered when the system is disarmed, any button must be pressed twice in succession.

It may be necessary to close the cab doors, depending on the vehicle type.

*The vehicle indicators flash once or twice (depending on the vehicle type), the interior beeper sounds 1 long and 2 short tones (disarmed).*

*Status LED flashes to indicate the corresponding cause of the alarm (see Page 6).*

### 1.9.7 Using the wireless gas alarm (accessory)



The wireless gas alarm can be switched on or off via the pressure switch on the narrow side of the casing. After switching on, the power lamp on the front lights up green. After the cleaning phase has finished, which lasts approx. 4 minutes, the system flashes green and the gas alarm now monitors the room air for critical concentrations of propane, butane and narcotic gases.

Spray cans (hairspray and deodorants etc.) contain combustible propellants which can trigger the gas alarm at high concentrations. Even strong cleaning agents can trigger the gas alarm at high dosages because of the aerosols they contain. We therefore recommend deactivating the gas alarm when using these materials.

### 1.9.8 Using the radio cable loop (accessory)

The radio cable loop can be plugged into the holder when the system is either armed or disarmed. It can be used to secure bicycles, motor scooters, camping furniture, surfboards and many other movable objects. Once the cable loop has been placed in the holder, cutting the cable or removing it from its holder will trigger the alarm.

### 1.9.9 Using the back-up siren (accessory)

The back-up siren has an integrated rechargeable battery which is charged via the vehicle battery. When the system now triggers the alarm, the back-up siren sounds. The back-up alarm siren will even sound when the supply voltage has been removed (sabotage alarm).

The back-up siren has a key switch on the back of the unit. Keep the key for it in a safe place so that the siren can be deactivated for servicing purposes.

Find out from your dealer where he has installed the siren.

**1.9.10 Anti-jamming alarm**

WiPro III applies intelligent functions and evaluation algorithms to detect illegal interference or disruptions of the receiving frequency. An alarm is triggered if necessary without interfering with the trouble-free operation of the WiPro III and its components in any way.

If you frequently use your vehicle in areas where the WiPro III is exposed to illegal traffic on its transmission frequency, this may result in undesired alarms.

Refer to Chapter 1.5 on Page 3 of the installation manual to learn how you can disable the anti-jamming function.

**2. Alarm storage**

The alarm storage allows you to review all incidents that occurred while you were away from your vehicle. When sounding a long, continuous tone followed by two short tones from the internal siren when switched to "disarmed", the alarm system has recorded a previous alarm.

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To determine which type of detector triggered the alarm, check the status LED before putting the alarm system back into operation. The status LED uses a sequence of flashes to indicate which type of detector triggered the alarm. You can use the table below to attribute an alarm to a specific detector.

If the tone described above sounds while the system is being "disarmed", the alarm storage will be erased by the next "arming" process.



1 flash followed by a 5 second pause... ● ————— ●	Reason for alarm: Cab doors (CAN bus)
2 flashes followed by a 5 second pause... ● ● ————— ● ●	Reason for alarm: Wireless magnetic contact
3 flashes followed by a 5 second pause... ● ● ● ————— ● ● ●	Reason for alarm: Wireless gas alarm
4 flashes followed by a 5 second pause... ● ● ● ● ————— ● ● ● ●	Reason for alarm: Radio cable loop
5 flashes followed by a 5 second pause... ● ● ● ● ● ————— ● ● ● ● ●	Reason for alarm: G.A.S.-pro
8 flashes followed by a 5 second pause... ● ● ● ● ● ● ● ● ————— ● ● ● ● ● ● ● ●	Reason for alarm: Panic alarm
9 flashes followed by a 5 second pause... ● ● ● ● ● ● ● ● ● ————— ● ● ● ● ● ● ● ● ●	Reason for alarm: Interfering transmitter
10 flashes followed by a 5 second pause... ● ● ● ● ● ● ● ● ● ● ————— ● ● ● ● ● ● ● ● ● ● ● ●	Reason for alarm: Pro-finder (SMS "alarm")
11 flashes followed by a 5 second pause... ● ● ● ● ● ● ● ● ● ● ● ————— ● ● ● ● ● ● ● ● ● ● ● ● ● ●	Reason for alarm: Input for interior lighting



## 2.1 Expanding WiPro with wireless accessories (easy add)



Additional wireless magnetic contacts, radio cable loops, wireless remote controls and wireless gas alarms can be stored in the unit during initial installation as described in the installation manual (Chapter 1.8). Once installed, the WiPro III can be expanded/deleted later at any time

### Activating assignment by wireless remote control

- 
1. Close driver's cab doors
  2. Disconnect power supply from the main unit (remove fuse or plug)
  3. Reconnect power supply
  4. On a remote control which has already been assigned, press the button  5 times consecutively within 30 seconds (*This will cause WiPro to change status several times; the Assign mode is indicated when the status LED is illuminated*)
  5. Initiate/confirm new accessories  
(*WiPro acknowledges each successful assignment by sounding the internal beeper*)
  6. Again, disconnect and reconnect the power supply

The new accessories are now assigned and ready for use.

### Deleting wireless components using the wireless remote control:

- 
1. Close driver's cab doors
  2. Disconnect power supply from the main unit (remove fuse or plug)
  3. Reconnect power supply
  4. On the remote control which was assigned first (master remote control) press the button  5 times consecutively within 30 seconds (this causes WiPro to change status several times, clearing the memory and finally switching to Assign mode. The clearing of memory is confirmed by one long beep.)
  5. Either assign new accessories or continue with step 6.
  6. Again, disconnect and reconnect the power supply

All accessories are now deleted, with the exception of the master remote control.

### Activating assignment by CAN bus

1. Disconnect power supply from the main unit (remove fuse or plug)
2. Reconnect power supply
3. Now, open/close the driver's door five times in a row within 30 seconds.  
(*WiPro will indicate Assign mode by illuminating the status LED*)
4. Initiate/confirm new accessories  
(*WiPro acknowledges each successful assignment by sounding the internal beeper*)
5. Again, disconnect and reconnect the power supply

The new accessories are now assigned and ready for use.

Deleting is not possible using the CAN bus.

### 3.1 Technical specifications

#### Main unit

Power supply (Uin):	9 – 30V
Siren output:	9-30V (Uin)/1 A
Indicator output:	60W
Current consumption:	approx. 11 mA
Assignable transmitters max:	100
Receiving frequency:	868.35 Mhz
Number of codes:	>4 billion. (>4,000,000,000)
Temperature range:	-10 °C to +80 °C
Interfaces:	RJ11 (output for Pro-finder for alarm forwarding) CAN bus interface

#### Remote control 868, magnetic contact 868

Transmission power:	< 10 mW
Range max:	75 m in the open
Battery type (transmitter):	CR2032 (button cell/ 3 V)
Battery life (transmitter):	approx. 2 years
Transmitting frequency:	868.35 Mhz
Number of codes:	>4 billion. (>4,000,000,000)
Temperature range:	-10 °C to +60 °C

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### 3.2 Disposal instructions



When decommissioning the device, do not dispose of it with household waste. Municipal recycling centres have suitable containers for the disposal of electronic equipment.

### 3.3 Technical support

If there is a problem which cannot be eliminated with the aid of this manual when using this system, please consult your specialist dealer:

**Serial number of the unit:**

If your specialist dealer is unable to help, please contact our technical support: +49 (0)4351 76744112

#### Disclaimer:

As with any other alarm system, WiPro III can only report a break-in or attempted break-in, but it cannot prevent it. Therefore, be wise and do not leave any valuables on view or where they are easily accessible in the vehicle or leave the vehicle unlocked.

Thitronik does not accept any liability for stolen valuables or damage to the vehicle caused by a break-in.

Hiermit erklärt die Thitronik GmbH die Übereinstimmung dieses Produktes mit den grundlegenden Anforderungen und den relevanten Festlegungen der Richtlinie 2014/53/EU.

Die detaillierte Konformitätserklärung steht unter folgendem Link zum Download bereit:

<http://www.thitronik-automotive.de/support.html>



Thitronik GmbH hereby declares that this product complies with the requirements and regulations of the directive 2014/53/EU.

The full declaration of conformity is available for download:

<http://www.thitronik-automotive.de/support.html>



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