TempoTel 2 867/868/915 MHz
28265.0001, 28266.0001, 28267.0001, 28265.0901, 28266.0901, 28267.0901

CE 0682

(EN) **Operating instructions (translation)**

18 202.0001/0911 EN

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Safety instructions

The instructions must be observed in order to ensure the product can be operated smoothly and safely and its properties can be fully realised.

- The operator/user must have completely read and understood the instructions.
- The operator must ensure that the instructions are available to the user in a legible form.
- The operator must ensure that all safety measures are observed and complied with.
- The following safety and assembly instructions apply to the device and not to the accessories and drive.

CAUTION!

Failure to observe these can cause physical injury!

→ Observe all safety instructions.

- Never install or take into operation devices which are damaged.
- Only use unmodified and compatible original parts.
- If the device is opened without permission or used in an improper manner, or if it is incorrectly installed or operated, there is a risk of injury to persons and damage to property.
- The device contains small parts which can be swallowed.

Transport

- Should you receive the device in a damaged condition despite proper packaging, you must not put it into operation. Complain about any damage to the transport company immediately.

Installation

- Observe the regulations during installation.

Operation

- Use only in dry rooms.
- If one or more transmitters are used for controlling the system, its operating range must stay visible during operation.
- Keep control systems out of the reach of children and the disabled.
- Dispose of used batteries properly.

Safety instructions for radio operation

	Observe all safety instructions for radio operation.

Only use radio systems which are approved and can be operated without interference.

- Radio systems must not be operated in areas where there is an increased risk of interference (e.g. hospitals, airports).
- The remote control is only approved for devices and systems for which any malfunction of the transmitter or receiver would not result in a risk for persons, animals or property, or if such a risk is covered by other safety equipment.
- The operator has no protection whatsoever against interference by other telecommunication installations and local terminals (e.g. also from radio installations which are operated properly in the same frequency range).
- The range of the radio signal is limited by legislation and the structural conditions.

Intended use

The TempoTel 2 is a multi-channel transmitter. It can be used unidirectionally (compatible with the existing ProLine program) or bidirectionally. The hand-held transmitter should only be used for controlling roller shutters, venetian blinds and sun protection systems which are fitted with elero radio receivers. Other use, or

use beyond this is not considered to be use for intended purpose. The hand-held transmitter is referred to as "device" in this manual.

Exclusion of liability

elero GmbH assumes no liability for personal injuries, property damage and financial losses which arise from use other than mentioned above, modifications to the device, improper use and failure to observe the operating instructions. Liability for material defects is excluded in such cases.

Scope of supply

TempoTel 2 (batteries included in the device),
wall bracket, 2 wall plugs, 2 screws.

Technical data

Name of device	TempoTel 2
Operating voltage	3 V DC
Battery type	2 x LR06 (AA Mignon)
IP Code	IP 20
Temperature range	0 to +55 °C
Radio frequency	867/868 MHz frequency band
Dimensions in mm (hand-held transmitter)	L 150 x W 51 x H 26
Weight in grams (including batteries)	140

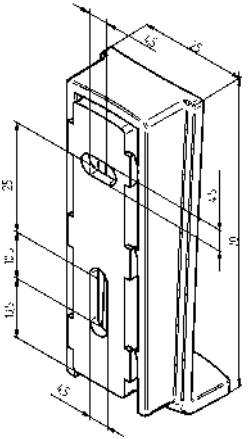
There are different regulations for the USA, Canada, Australia and some countries in South America.

Radio frequency	915 MHz frequency band

Mounting of wall bracket

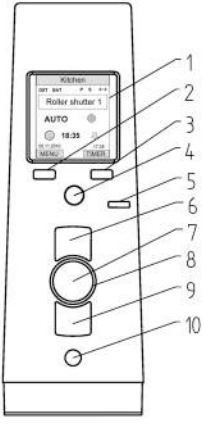
- The wall bracket must be fixed so that the drill holes do not touch any electrical cables.
- Before installing the unit in the required position, check that the transmitter and receiver are functioning perfectly.
- Attach the bracket to the wall with the wall plugs and screws provided.

The top part of the wall bracket can be moved.



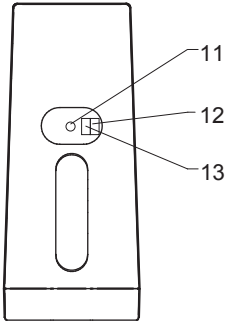
Device explanation

Front of device



1 Display
2 Left menu button
3 Right menu button
4 Joystick
5 Operating mode indicator
6 **UP** button
7 **STOP** button
8 Status indicator
9 **DOWN** button
10 Select button

Back of device



11 Learn button **P**

Only for experts:
12 DIP switch 1
13 DIP switch 2

Explanation of functions

Bidirectional radio system

A bidirectional radio system transmits radio signals to a radio receiver and enables feedback from the radio receiver to the transmitter. The radio signal can be sent directly to the target receiver. If this is not possible then the radio signal is forwarded via other bidirectional participants until the signal reaches the target receiver. The target receiver carries out the command and sends a confirmation back to the transmitter.
Bidirectional radio operation is only possible if all participants are bidirectional. Otherwise, the system is only unidirectional.

Unidirectional radio system

A unidirectional radio system transmits radio signals to radio receivers. However, in contrast to the bidirectional radio system, the radio receivers cannot send back a reply to the transmitter. The transmission of radio signals from radio receiver to radio receiver is also not possible.

Initial operation

Press a button to switch on the hand-held transmitter and illuminate the display, status display and operating mode display. The hand-held transmitter is in automatic mode during initial operation.

Note

Do not press the **P** button until the receivers are in programming mode. The active channel for a radio system is decided during the programming. If the receivers are not in programming mode, the channel of the sender changes to the unidirectional mode. In order to restore the starting condition, press the **STOP** and **P** buttons simultaneously for 6 seconds until the status display lights.

Select the required language by navigating the menu during initial operation.

Factory settings

Program	**Individual**	Off
	Open	07:00 / Sat + Sun 08:00
	Close	20:00
	Astro	On
	Lock time opening	06:30 / Sat + Sun 08:00
	Lock time closing	--:-- (off)
	Astro evening	Off
	Open	07:00 / Sat + Sun 08:00
	Lock time closing	--:-- (off)
Settings	Holiday	Off
	Astro offset	In the Morning +0:00 min
		Evening +0:30 min
	Language	German
	Lighting (display)	On
	SU/WI time	Automatic changeover ON
	Intermediate position	--- (without specifying run time)
	Ventilation position	--- (without specifying run time)
	Program position ↓	End position (for timed switching command **DOWN**)
	Program position ↑	End position (for timed switching command **UP**)
	Priority	Off (automatic switching commands not prioritised)
	Shading	Off (automatic shading system not deactivated with automatic timed switching command **DOWN**)
	Product selection	Roller shutter

Note

Settings according to channels are only available if at least one channel has been programmed.

Notice: Confirming “Factory settings” in the menu FUNCTION restores all the internal settings of the hand-held transmitter to the factory settings (“Settings”, “Program”) except the setting for deleting the channel.

Status display

A radio signal is displayed by the illumination of the status display (LED ring around the **STOP** button). The different colours of the status display mean:

Status display	Meaning
Flashing orange	Channel (transmitter) not programmed in any receiver
Quick flashing orange	Channel (transmitter) in bidirectional programming mode. Operation of already programmed receivers not possible. Every 3 seconds in group programming mode (also without pressing a button)
Orange then green	Channel (transmitter) is operating bidirectionally and receiver has received the signal
Orange then flashing red	Channel (transmitter) is operating bidirectionally and one of the receivers has not received the signal
Red then green	Channel (transmitter) is operating bidirectionally and receiver has received the signal, batteries weak
Red then flashing red	Channel (transmitter) is operating bidirectionally and one of the receivers has not received the signal, batteries weak
Green	Channel (transmitter) is operating unidirectionally: Transmit signal is being sent
Green with repeat, then red (unidirectional)	Channel (transmitter) is deleted
Alternating orange and green (or red), then red (bidirectional)	Channel (transmitter) is deleted
Flashing red	Batteries weak

The transmitting power or the radio range will be reduced by the reduction in the performance of the battery. Weak batteries are indicated on the display using **BAT**. If the voltage drops below 2 V, functions are no longer executed and nothing is displayed.

Group control unit

A group is understood to mean the control of several receivers at the same time. The selected group is controlled by a travel command. All 10 channels (transmitter) can be used for the group control.

Any number of receivers can be programmed and controlled in each channel.

Joystick

Pressing the joystick briefly up and down enables you to select from 10 channels. The channels are shown in the display with the channel number or with the name input by the user.

An additional channel is reserved for the central channel (**All**) which is automatically assigned to all individual channels. The central channel can be selected by moving the joystick briefly to the left. When the central channel is selected, this controls all radio channels simultaneously.

If the hand-held transmitter has two or more bidirectional individual channels, you can configure and select two group control systems by moving the joystick briefly to the right. The bidirectional channels can be allocated for a group via the “Administration” menu.

Selection button

Pressing the selection button briefly allows you to query the current status (automatic/manual) of the programmed receivers (bidirectional receivers only) and the hand-held transmitter.

Pressing the selection button for longer (approx. 1 second) switches off automatic mode of the respective bidirectional channel or all unidirectional channels. The operating mode display lights red and changes to MANUAL mode in the display. → The receiver now only carries out manual travel commands and does not respond to automatic travel commands.

Note

In the case of **unidirectional** channels only the automatic system for timed switching functions in the transmitter is

switched off in the manual mode. The automatic shading system stays switched on in unidirectional receivers.

In the case of **bidirectional channels** all the automatic functions in the receivers are switched off in manual mode. This means the receivers do not respond to automatic timed switching commands and shading commands from programmed sensors.

Upward travel of the receiver is initiated when the automatic system is activated.

Pressing the selection button for longer (approx. 1 second) switches on automatic mode of the respective bidirectional channel or all unidirectional channels. The operating mode display lights green and the operating mode in the display changes to AUTO. → The receiver now executes automatic and manual travel commands.

Pressing the selection button in the central channel for longer (approx. 1 second at the most) changes the AUTO or MANUAL operating mode for all the **individual channels**. Switching all the channels to AUTO operating mode sets a different operating mode for individual channels (AUTO and MANUAL),as indicated by the orange operating mode display and the letters **A+M** in the display.

Operating mode

Each time a button is pressed, the following are shown in the display: the currently **selected channel**, the current **operating mode** (AUTO or MANUAL) and the **symbol for the control status**. Activating a switching time function for a channel displays the type of switching time function and the next automatic switching time.

Room allocation is also shown in the display if the channel is allocated to a room in the editing menu.

Display in operating mode

Room allocation (optional)
Function bar:
↔ = Bidirectional
→ = Unidirectional
Channel number or name of the channel
Operating mode, status symbol

Switching time type, next switching time

Pressing the menu button "**Timer**" can activate or deactivate the automatic timed switching function for the channel.

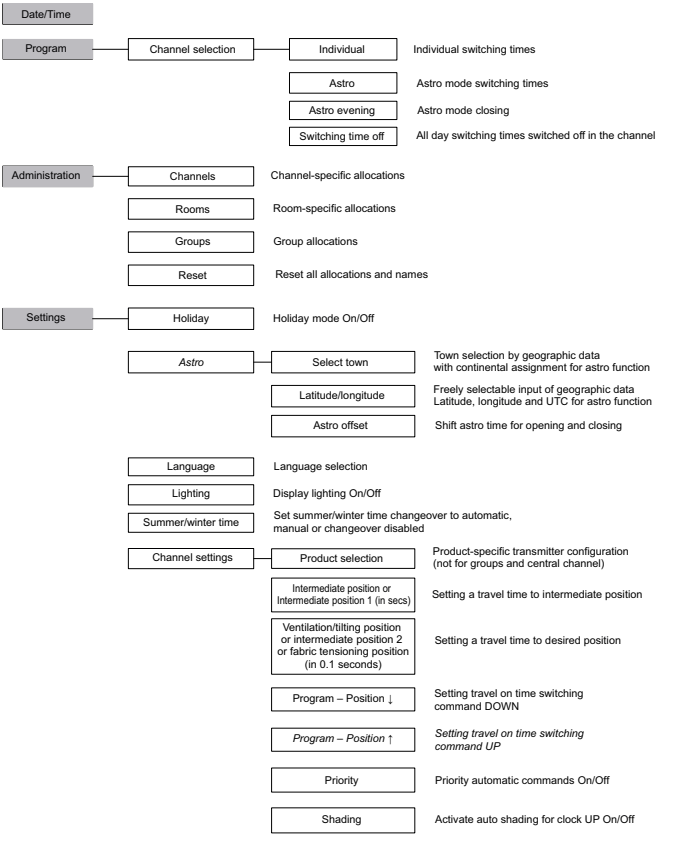
The display switches off after 2 minutes if no buttons have been pressed.

Function bar abbreviations and display symbols

DST	Daylight saving time activated
BAT	Low battery charge
P	Channel-related priority for timed switching command activated
S	Channel-related activation or deactivation of the automatic shading system when automatic timed switching command is activated

- Travel up
- Travel down
- End position top
- End position bottom
- Stop status
- Wind interlock
- Individual switching time ON
- Astro switching time ON

Menu structure



Menu mode

Pressing the “**MENU**” button opens the menu mode for setting the time, date, switching times and function parameters.

Selections and changes in the menu can be made using the left and right menu buttons and the joystick. The keyboard layout is specified in the text above the menu button.

Joystick functions

Movement down	Downward scrolling function or value change (-) In the Time Change menu: Selection of the days
Movement up	Upward scrolling function or value change (+) In the Time Change menu: Selection of the days
Movement to the left/ right	Changes the setting ranges or activates the field.

Note

If the hand-held transmitter is in the menu mode and the buttons are not pressed for longer than 90 seconds, the menu is automatically changed back to operating mode without saving the changes.

DATE/TIME menu

Setting the date and time. Using the automatic switching commands requires a current setting.

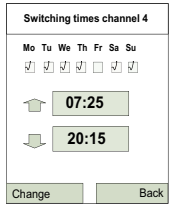
PROGRAM menu

Once you have selected the channel, you can set different switching times:

- Individual (each day can be selected)
- Astro (each day can be selected), set ON at the factory
- Astro evening (each day can be selected)

The selection of the switching or lock times assigned to days is performed using the activation of the days of the week using the joystick (up/down).

Switching time example:



All switching times can also be deactivated per channel for all days, display "–:–" for deactivated switching times.

Note

It is not possible to select different switching times for specific channels for several unidirectional function channels (switching time applies to all unidirectional channels).

Individual

Automatic up and down movements at the set times and days.

Astro

Controls the up and down movement according to Astro function in accordance with the sunrise and sunset times. Programmable lock times prevent up and down movements occurring too soon.

A switching time adapted to the local conditions for the up and down movements can be achieved using input of the geographic data by selection of a town or inputting longitude and latitude. This can be supplemented with an individual Astro offset (see settings).

Astro evening

This controls the up movement according to the set switching time and the down movement according to the Astro function. The

programmable lock time prevents down movement using the Astro function occurring too soon.

A switching time adapted to the local conditions for the down movements can be achieved by inputting the geographic data according to town selection or input of longitude and latitude and individual Astro offset (see settings).

Lock time

This prevents up or down movement using the Astro function occurring too soon. Changing lock times: "Program" menu, select channel, Astro evening (or Astro), select "Change", select days by moving joystick completely to the right, change lock times, save.

ADMINISTRATION menu

You can select channels, rooms and groups and set their names and assignments. Selecting the menu item “**Reset**" enables all the designations to be restored to the factory settings.

Channels

You can allocate a selected channel to a room or group (bidirectional channels only). You can change the designation individually for the selected channel. The channel's position in the list can be moved for the operating mode.

Rooms

Once you have designated individual rooms, you can allocate channels or groups to selected rooms and change the room designations. However, no functions can be assigned.

Groups

You can select two groups, allocate individual channels or rooms to them and change their group designation.

Note

Group allocation is only available if at least 2 bidirectional radio channels exist. Group allocation is not possible for unidirectional channels.

SETTINGS Menu

Adjusting the functions as required.

Global settings

Settings for holidays, Astro, language, lighting and Summer/Winter time apply to all channels.

Holiday

The holiday function simulates an occupied house while you are on holiday. If this function is active, all the programmed switching times are delayed by 0-30 minutes at random.

Astro

When the Astro menu is selected, the input of a town or the direct input of longitude and latitude with UTC and a defined Astro offset of the switching time are available for adapting the Astro switching times according to geographic data or individual requirements.

Town selection

It is possible to select a town using the geographic data. The towns are sorted by continent. The continents are selected by moving the joystick sideways; a town is selected by moving the joystick up or down. The town of Kassel for Germany is set at the factory. See the "Towns for selection" chapter for selectable towns.

Longitude / latitude

The direct input of geographic data for the Astro function is possible using the "Longitude", "Latitude" and "UTC" input fields. When a town is selected, the geographic data of the selected town are displayed. If data are entered directly which are different from the

town-related coordinates, the previous selection of the town is cancelled.

Astro offset

Individual or local adjustment of the Astro switching times with the option of offsetting the opening and/or closing time by up to a maximum of ± 120 minutes.

Language

You can select the language of the menu texts from a list:

- German
- Spanish
- Dutch
- Polish
- English
- Italian
- Swedish
- French
- Portuguese
- Danish

Lighting

Switching the display background lighting on and off.

This is switched off automatically if no button is pressed for 5 seconds. The lighting function is switched on at the factory.

Su/Wi Time

Su/Wi designates the automatic Summer/Winter time changeover. The automatic changeover is activated at the factory; the timer adjusts automatically.

In the menu, you can select between an automatic Summer / Winter time changeover in accordance with country-specific rules or a manual Summer time changeover for areas without defined rules for the Summer time. Automatic Summer time changeover is not available in these areas. Both changeover types can be deactivated with resetting to the local standard time.

An activated Summer time is indicated in the function bar of the display with "DST" (daylight saving time).

Note

If the automatic Summer time changeover cannot be selected, a possibly necessary manual Summer time setting must

always be made using the "Su/Wi time" menu in order to prevent unwanted switching time offsets of the Astro function (closing and opening too soon).

Settings for specific channels

The following settings apply to each channel.

Possible running time to the intermediate position: from 0 to 360 seconds, running time to the ventilation position: roller shutters 0 to 120 seconds, venetian blinds 0 to 180 seconds.

In addition, you can program intermediate/ventilation/tilting positions. You can also program on the receiver.

Product selection

After selection of a channel, a product-specific designation of individual functions and a maximum running time can be assigned to the channel. Product-specific basic characteristics of venetian blind products as compared with other product groups are recognised and configured automatically.

Roller shutter	Available setting: intermediate position and ventilation position
Awning	Available setting: intermediate position and fabric tautening position
Interior shading	Available setting: intermediate position 1 and intermediate position 2
Maximum running time in each case 120 seconds	
Venetian blinds	Available setting: intermediate position and tilting position
Maximum running time 180 seconds	

Intermediate position or intermediate position 1

The transmitter can store a run time for the intermediate position for each channel. A common run time for the intermediate position can be set for unidirectional channels.

After selection of a channel, a running time for the approach of an intermediate position from the top end position can be set in 1 second steps using the joystick (up/down) or using the **UP**/**DOWN** buttons.

Approach of the intermediate position (according to the preset running time): short double press of the **DOWN** button.

The intermediate position run time is set at 0 (---) at the factory.

Ventilation, tilting, fabric tautening position, intermediate position 2

The transmitter can store a running time for this position for each channel. A common run time can be set for unidirectional channels.

After selection of a channel, a running time for the approach of a ventilation position (roller shutter) or tilting position (venetian blind) from the bottom end position can be set in 0.1 second steps using the joystick (up/down) or using the **UP**/**DOWN** buttons.

Approach of the ventilation or tilting position (according to the preset running time): short double press of the **UP** button.

The ventilation position running time is set to 0 (---) at the factory.

Program position ↓ (DOWN)

After selection of a channel, the way an automatic closing command is carried out (if the timed switching function for the channel is activated) can be selected. You can set a common program position for unidirectional channels.

End position	Roller shutter, awning, venetian blind or interior shading moves to the bottom end position
Intermediate position/ intermediate position 1	Roller shutter, awning or venetian blind moves to the programmed position
Intermediate position 2/ventilation/tilting/ fabric tautening position	Roller shutter, awning, venetian blind or interior shading moves to the bottom end position and then to the programmed position

Program position ↑ (UP)

After selection of a channel, the way an automatic opening command is carried out (if the timed switching function for the channel is activated) can be selected. You can set a common program position for unidirectional channels.

End position	Roller shutter, interior shading, venetian blind or awning moves to the top end position (factory setting)
Intermediate position 2/ventilation/tilting/ fabric tautening position	Roller shutter, awning, venetian blind or interior shading moves to the programmed position or travels for the programmed running time

Priority

After a channel has been selected, it can be defined using an activated priority that automatic switching commands from the hand-held transmitter channel are given priority in all receivers and also accepted in the MANUAL operating mode of receivers. Automatic switching commands are prioritised in the factory settings.

The activated prioritisation of timed switching commands is indicated in the function bar of the display by a **"P"**.

In unidirectional channels only a common setting of the priority is possible.

Automatic shading system

A time-controlled down command switches off the automatic shading system (privacy protection). A time-controlled opening command switches on the automatic shading system again. The shading setting must be set to "Automatic ON".

The shading setting is set to “Automatic OFF” at the factory.

The activated automatic shading system is indicated in the function bar of the display by an **"S"**.

In unidirectional channels only a common setting is possible.

FUNCTION menu

Factory setting

Resets all settings except the receiver assignments linked to channels to the factory settings. All the initial operation steps must then be carried out.

During the initial commissioning, the following must be set using the automatic menu guidance: "Language setting" -> "Town selection" -> "Date/time".

Version

Indication of the current firmware version.

Programming the transmitter

Requirement

The receiver is installed. **Check whether the channel is deleted** or in the correct mode according to the status display.
Stand in front of the blind to be programmed for the programming.

1. With electrical receivers which have already been installed, switch the fuse off, and on again a few seconds later.
   The receiver is now in programming mode for about 5 minutes.
2. Press the programming button **P** on the back of the device briefly (approx. 1 second) until the status display lights for a short time.
   The blind moves up and down for approx. two minutes, showing that the receiver is in programming mode.
3. Press the **UP** button as soon as the blind starts moving in Open direction (within 1 second at the most). The status display lights briefly.
   The blind stops briefly, starts moving again, stops and then moves in the Down direction.
4. Immediately (within maximum 1 second) after starting down travel, press the **DOWN** button. The status display lights briefly.
   The blind stops. The transmitter channel is programmed.

Note

If the blind does not stop, it must be programmed again.

A bidirectional programming process in the hand-held transmitter can be cancelled by pressing the **STOP** button for 6 seconds.

Programming additional transmitters

Note

If **several receivers** are connected to the **same feed line,** then all are simultaneously in programming mode for approx. 5 minutes after switching on the mains power.

If the **P** button on the transmitter is now pressed, all the receivers start programming mode at the same time (up/down movements). Randomly different intervals between open / down movements cause the receivers to become offset against one another. The longer programming is delayed, the greater the offset will be.

The short up/down movements can be stopped by pressing the **STOP** button briefly on a transmitter which has already been programmed. The programming mode in the receiver is interrupted.

The transmitter can now be assigned without having to disconnect individual receivers. If the blind moves in the wrong direction, delete the transmitter and program it again.

(→ see Deletion of transmitter)

For programming additional transmitters to one receiver:

1. Press the **UP**, **DOWN** buttons and the programming button **P** (back of device) simultaneously (for 3 seconds) on a transmitter which has already been programmed to the receiver. The status display lights briefly. The receiver is now in programming mode.
2. Press the programming button **P** on the transmitter to be programmed until the status display lights briefly. The receiver is now in programming mode (up/down movements).

3. Press the **UP** button as soon as the blind starts moving in Open direction (within 1 second at the most). The status display lights briefly. The blind stops briefly, starts moving again and then moves downwards.
4. Immediately (within maximum 1 second) after starting down travel, press the **DOWN** button. The status display lights briefly. The blind stops. The transmitter channel is programmed.

If more than 10 bidirectional receivers are being programmed at the same time, the transmitter channel in programming mode switches to group mode. The group mode is indicated by fast flashing with pauses.

Programming in group mode is completed after a 2-minute pause or pressing the **STOP** button for 6 seconds.

Note

A jogging mode for venetian blinds for quickly reaching receivers which are further away is not possible in a transmitter channel with more than 10 programmed receivers.

Synchronous Programming Mode

For programming additional receivers to one transmitter at the same time:

1. Press the **DOWN** button and the programming button **P** (back of device) simultaneously (for 3 seconds) on a transmitter which has already been programmed to the receivers). The status display flashes. The receivers are now in programming mode.
2. For bidirectional operation only: press the programming button **P** on the transmitter to be programmed until the status display lights briefly. The receivers are now in programming mode (up/down movements).
3. Press the **UP** button as soon as the blind starts moving in open direction (within 1 second at the most). The status display lights briefly. The blinds stop briefly, start moving again, stop and then move downwards.

4. Immediately (within maximum 1 second) after starting down travel, press the **DOWN** button. The status display lights briefly. The blinds stop moving. The transmitter channel is programmed.

Stopping programming mode (bidirectional) in the transmitter

Press the **STOP** button for at least 6 seconds until the status display lights orange.

Approaching end positions roller shutter/awning/ venetian blind

Requirement

The transmitter/transmitter channel is programmed. The end positions of the drive have been set.

Approaching bottom end position (roller shutter/awning)

Press the **DOWN** button briefly. The blind moves to the bottom end position/the awning extends completely.

Approaching the lower end position (venetian blind)

Press the **DOWN** button until the status display lights briefly. The blind approaches the lower end position.

Only press the **DOWN** button briefly (jog mode) for venetian blind drive, pulse mode for Combio JA Pulse), the blind approaches briefly and stops again.

Approaching top end position (roller shutter/awning)

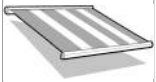
Press the **UP** button briefly. The blind approaches the upper end position/the awning retracts.

Approaching the upper end position (venetian blind)

Press the **UP** button until the status display lights briefly. The blind approaches the upper end position.

Only press the **UP** button briefly (jog mode) for venetian blind drive, pulse mode for Combio JA Pulse), the blind approaches briefly and stops again.

Intermediate positions of the blinds

	Roller shutter	**Awning** 	**Venetian blind**	**Interior shading**
Pos▼	Intermediate position	Intermediate position	Intermediate position	Intermediate position 1
Pos▲	Ventilation position	-- /fabric tensioning	Tilting position	Intermediate position 2

Programming the intermediate position in the receiver

Requirement

The transmitter/transmitter channel is programmed. The end positions of the drive have been set. The blind is in the top end position.

1. Move the blind to the required position using the **DOWN** button. In doing so, keep the **DOWN** button pressed.
2. Also press the **STOP**- button. The blind stops. The status display lights briefly.
   The intermediate position is programmed.

Programming the ventilation/tilting position in the receiver

Requirement

The transmitter/transmitter channel is programmed. The end positions of the drive have been set. The blind is at its lower end position.

1. Use the **UP** button to move the blind in the UP direction until the ventilation gaps open or the slats are inverted. Keep the **UP** button pressed during the movement.
2. Also press the **STOP** button. The blind stops. The status display lights briefly.
   The ventilation position/tilting position is programmed.

Approaching intermediate position

Requirement

The transmitter/transmitter channel is programmed. The blind is at its upper end position.

1. Press the **DOWN** button twice briefly. The status display lights briefly.
2. The blind travels to the stored intermediate position. In the case of venetian blinds, the slats turn automatically after reaching the intermediate position if a tilting position has been programmed. If no intermediate position has been programmed, the blind moves to the bottom end position (not when using Combio JA Pulse).

Approaching ventilation/tilting position

Requirement

The transmitter/transmitter channel is programmed. The blind is at its lower end position.

1. Press the **UP** button twice briefly. The status display lights briefly.
2. The blind travels to the stored ventilation / tilting position. If no ventilation/tilting position has been programmed, the blind moves to the top end position (not when using Combio JA Pulse).

Operation of the transmitter using Combio JA Pulse

A Combio 867/868/915 JA Pulse can be used for the precise adjustment of the slats for venetian blind drives.
The preset pulse time of Combio Pulse is cycled by pressing the **UP** or **DOWN** button.

The pulse time can be changed by the user. Keep the **STOP** and **UP** buttons on a programmed transmitter pressed for 6 seconds for this. The drive starts to move in small pulses. As soon as the blind has travelled the required distance, release the **UP** button, then release the **STOP** button. The new pulse time is saved. The new pulse time corresponds to the sum of all pulse times during the programming of the pulse time. The Combio JA Pulse ends the programming of the pulse time after 30 pulses.

Deleting positions/deleting transmitters

Deleting the intermediate position in the receiver

1. Press both the **STOP** and **DOWN** buttons.
2. Hold down this button combination for approx. 3 seconds. The status display lights briefly.

Deleting the ventilation/tilting position in the receiver

1. Press both the **STOP** button and the **UP** button.
2. Hold down this button combination for approx. 3 seconds. The status display lights briefly.

Deleting the transmitter channel in the receiver

1. Press both the **STOP** button and the programming button **P** (on the back of the device).
2. Keep this button combination pressed for approx. 6 seconds until the status display lights orange briefly and then lights red. In unidirectional radio operation, the status display lights for 6 seconds: first green briefly twice and then red. The channel in the transmitter is also deleted.

Deleting all the transmitters in the receiver

1. Press the **STOP** button and also the programming button **P** (on the back of the device) + **UP** button + **DOWN** button.
2. Hold down this button combination for approx. 6 seconds. The status display lights orange/green briefly twice, followed by red (bidirectional).

The channel in the transmitter is also deleted.
In unidirectional radio operation, the status display lights for 6 seconds: first green briefly twice and then red.

Expert Settings

DIP switch 2 on the rear of the device, under the cover:
switch up: OFF (bidirectional and unidirectional operation possible, preset), switch down: ON (only bidirectional operation is possible).
DIP switch 1: OEM setting.

Battery replacement

Note

Replace batteries only with batteries of the identical type.

1. Unscrew the underside of the device and open the housing.
2. Remove the batteries.
3. Insert the new batteries in the correct position.
4. Put the device back together again.

Dispose of used batteries properly.

Cleaning

Clean the device with a damp cloth. Do not use a detergent. This may attack the plastic.

Disposal

After the end of its service life, dispose of the device in accordance with the applicable regulations.

Towns for the selection

EUROPE

Town	Country
Trondheim	Norway
Oslo	Norway
Oestersund	Sweden
Stockholm	Sweden
Helsinki	Finland
Moscow	Russia
Copenhagen	Denmark
Glasgow	Scotland
London	England
Manchester	England
Amsterdam	Netherlands
Brussels	Belgium
Hamburg	Germany
Kassel	Germany
Berlin	Germany
Cologne	Germany
Dresden	Germany
Frankfurt	Germany
Nuremberg	Germany
Stuttgart	Germany
Munich	Germany
Warsaw	Poland
Krakow	Poland

Town	Country
Basel	Switzerland
Zurich	Switzerland
Bern	Switzerland
Geneva	Switzerland
Budapest	Hungary
Lille	France
Paris	France
Brest	France
Lyon	France
Toulouse	France
Marseilles	France
Venice	Italy
Milan	Italy
Florence	Italy
Roma	Italy
Naples	Italy
Zagreb	Croatia
Bucharest	Romania
Istanbul	Turkey
Athens	Greece
Corunna	Spain
Madrid	Spain
Barcelona	Spain

Town	Country
Kiev	Ukraine
Vienna	Austria
Linz	Austria
Innsbruck	Austria
Graz	Austria

Town	Country
Malaga	Spain
Las Palmas	Spain
Lisbon	Portugal

NORTH AMERICA

Town	Country
Vancouver	Canada
Montreal	Canada
New York	USA
San Francisco	USA
Denver	USA

Town	Country
Atlanta	USA
San Diego	USA
Dallas	USA
Miami	USA
Mexico City	Mexico

SOUTH AMERICA

Town	Country
Medellin	Colombia
Lima	Peru
Santiago DC	Chile

Town	Country
Sao Paulo	Brazil
Buenos Aires	Argentina

AFRICA

Town	Country
Casablanca	Morocco
Tunis	Tunisia

Town	Country
Cairo	Egypt
Cape Town	South Africa

ASIA

Town	Country
Beijing	China
Shanghai	China
Hong Kong	China
Manila	Philippines

Town	Country
Singapore	Singapore
Mumbai	India
New Delhi	India
Tehran	Iran

AUSTRALIA / NEW ZEALAND

Town	Country
Perth	Australia
Sydney	Australia

Town	Country
Christchurch	New Zealand

Troubleshooting

Fault	Cause	Remedy
Drive does not run, status display does not light	1. Batteries are low 2. Batteries are incorrectly installed	1. Insert new batteries 2. Insert batteries correctly
Drive does not run, status display lights red or flashes orange Unidirectional: Status display lights green	1. The receiver is outside the sending range. 2. Receiver out of order or defective 3. Receiver not yet programmed	1. Reduce distance to the receiver 2. Switch on or exchange receiver 3. Program receiver
Drive operates in the wrong direction	Directions are incorrectly allocated	Delete transmitter and reprogram
Required drive does not run	Incorrect group or channel selected	Select correct group or channel

Fault	Cause	Remedy
End positions are approached inaccurately	End positions not yet set	Have the end positions set by a specialist in accordance with the product instructions
The hand-held transmitter does not carry out the set switching commands	1. The date and time are not set 2. "MANUAL" operating mode is set 3. The timed switching functions for specific channels are not activated	1. Setting the date and time 2. Set “AUTO” operating mode 3. Activate the timed switching function for the channel
The hand-held transmitter does not carry out the set switching commands accurately	Holiday function is switched on	Switch holiday function off
The Astro program switches inaccurately	1. Date set incorrectly 2. Holiday function is switched on 3. Astro offset is set	1. Set correct date 2. Switch holiday function off 3. Adjust Astro offset
There is no timed switching function for automatic switching commands after the batteries have been replaced	Power supply interrupted for too long	Setting the date and time

Repair

Please contact your dealer if you have any questions.

Please always provide the following information:

- Item number and name on the type plate
- Type of fault

- Previously occurring unusual events
- Accompanying conditions
- Own presumption

EC Declaration of conformity

We hereby declare that the following mentioned product/s meet/s the standards of the European Community.

Product name: **ProLine 2**

- MonoTel2 (-867 / -868 / -915) all versions
- LumeroTel2 (-867 / -868 / -915) all versions
- VarioTel2 (-867 / -868 / -915) all versions
- TempoTel2 (-867 / -868 / -915) all versions
- SoloTel2 (-867 / -868) all versions

Description: Radio hand-held transmitters for bidirectional and standard communication between transmitters and receivers to control roller shutters, awnings, venetian blinds and indoor shading systems

The conformity of the indicated product(s) with the most important safety requirements is verified by the conformation to the following guidelines and standards:

- EMC-Directive 2004/108/EC
  EN 61000-6-2:2005, EN 61000-6-3:2001
  EN 60730-1:2000, EN 60730-2-7:1991
- R&TTE-Directives 1999/5/EC
  ETSI EN 301 489-3 V1.4.1
  ETSI EN 300 220-2 V2.1.2
- RoHS Directive 2002/95/EC

Beuren, 08.06.2011

Ulrich Seeker
-CE Officer-, -Representative-

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