



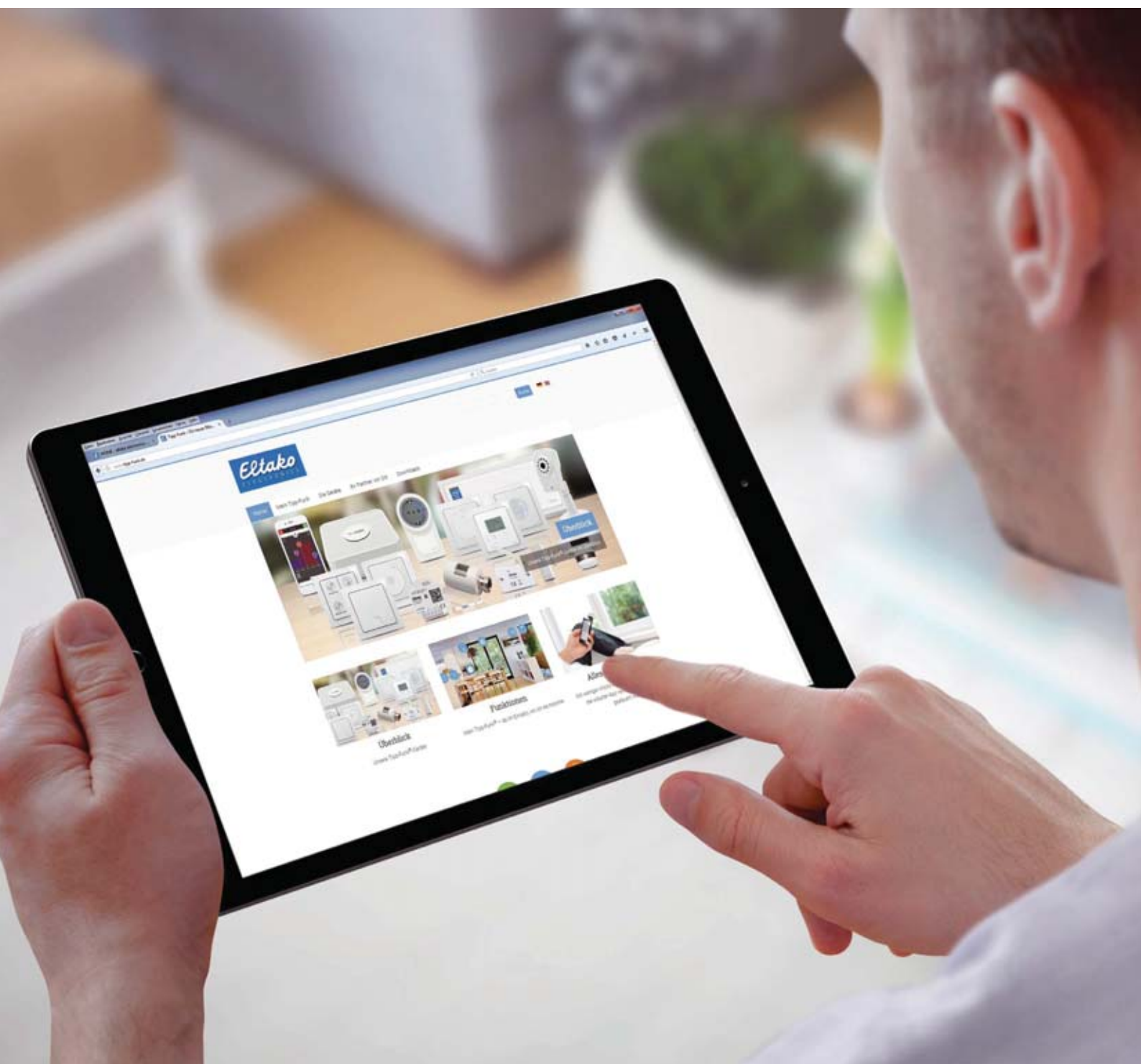
## **Tap-radio®**

The innovative Smart Home Wireless System with EnOcean technology

Actuators, active and passive sensors and the Smart Home control units

**Products and prices 2019**

Visit us online at **tap-radio.com**  
There you will find the complete information about the  
Eltako tap-radio and the devices.



# The innovative Smart Home Wireless System with EnOcean technology

## Dimming actuators for lights, switch lighting, shading elements and signal generators

We produce tap-radio® actuators for installation in sockets or switch boxes.

### Active wireless sensors

Wireless sensors which independently test their ambient values and send wireless telegrams automatically are referred to as active sensors. The tested ambient values may include brightness, temperature or air humidity.

Testing and sending are either continuous or at defined intervals to save energy when battery powered.

### Passive wireless sensors

Wireless sensors which only send wireless telegrams when triggered manually are referred to as passive sensors which are mainly wireless pushbuttons, hand held transmitters and remote controls.

### Smart Home control units


Sensors and actuators are directly interconnected by teaching in with tap-radio technology. If additional connections, visualisations and smartphone controls are set up, they required a Smart Home control unit.

We offer you a full range comprising the MiniSafe, MiniSafe REG and TF-WP.

### Blister packs and accessories

Blister packs are an easy entry to Tap-radio.

The tap-radio® devices are divided in two groups:

the  **private series** and the  **professionnal series**.

Operating the socket actuators of the private series is intuitive and as end-users you even have a multitude of options to control your electrical system at home.

All actuators are perfectly specialised for their tasks that a single pushbutton can be taught in a number of different functions only by simple tapping – conveniently and without any rotary switches, thanks to the tap-radio® technology.

You want to extend your tap-radio® system with the profesional series? After having an electrician installed the original system, you can teach in new pushbuttons, window contacts, motion detectors and humidity temperature sensors in existing tap-radio® actuators without any manual intervention in the flush-mounted box.

The Eltako tap-radio® system leaves nothing to be desired when it comes to building automation systems. If a MiniSafe is installed as a Smart Home control unit, the entire system can be controlled by its app via your smartphone or tablet.

## This is how tap-radio® works

**After plugging in the adapter plug actuator into the socket or connecting the tap-radio® actuator and switching on the power supply, the wireless pushbutton can be taught in within two minutes for each pushbutton by tapping the pushbutton on the appropriate actuator.**

Light, dimming and Venetian blind actuators: tap briefly 3 times for use as an universal pushbutton, 4 times briefly for use as a direction pushbutton, 5 times briefly for use as a central control pushbutton On, 6 times briefly for use as a central control pushbutton Off. Every teach-in and start/end of teach-in mode is confirmed by short flashing or flickering, if a lamp or a motor is connected. If no action occurs for two minutes, the teach-in mode ends automatically.

**On tap-radio® actuators manufactured after production week 27/2016, locking is carried out automatically after a period of two minutes, if at least one pushbutton was not taught in as a central control pushbutton.**

**At older tap-radio devices, you should lock the teach-in mode by tapping 3 times short + 1 time long (>2 seconds) when you are finished with the teaching-in procedure, after that you can teach-in the next tap-radio actuator without interfering on the first one.**

If you want to change the taught in device later or teach in other sensors, you can unlock the teach-in mode: tap briefly 4 times short and once long (>2 seconds) with a taught-in wireless pushbutton (not a central control pushbutton).

The wireless dimmers are universal dimming actuators in the factory setting and they dim depending on the connected load with leading or trailing edge. With some LED lamps, the dimming function improves when dimming takes place with leading edge dimming. Leading edge dimming is defined by tapping

5 times briefly and once long (>2 seconds). The factory setting is reset by tapping 6 times briefly and once long (>2 seconds).

The TF-FKE window contacts and wireless pushbuttons are also taught in into the TF61R-230V relay actuator by briefly tapping the contact 3 times to generate an NO contact or briefly tapping the contact 4 times to generate an NC contact. TF-FKB window contacts are taught in by their magnets: tapping 3 times briefly to generate an NO contact or tapping 4 times briefly to generate an NC contact. Tap-radio® temperature controllers TF-TRHB are taught-in via an internal button. Blocking and unblocking as for the other actuators.

Virtual pushbuttons from the GFVS software are taught-in by special wireless telegrams.

Function/service	Tap function	TF61L	TF61R	TF61J	TF61D	TF100L	TF100D
Universal pushbutton	3x	x	3x NO contact 4x NC contact	x	x	x	x
Direction pushbutton	4x	x	-	x	x	x	x
Central on/up	5x	x	-	x	x	x	x
Central off/down	6x	x	-	x	x	x	x
Window contacts	3x	-	NO contact	-	-	-	-
Window contacts	4x	-	NC contact	x	-	-	-
Motion detector	1x	x	-	-	x	x	x
GFVS	1x	x	x	x	x	x	x
Phase angle	5x briefly 1x long	-	-	-	x	-	x
Auto mode	6x briefly 1x long	-	-	-	x	-	x
Lock	3x briefly 1x long	x	x	x	x	x	x
Unlock	4x briefly 1x long	x	x	x	x	x	x
Switch RM on/off	7x briefly 1x long	x	x	x	x	x	x
Clear content	8x briefly 1x long	x	x	x	x	x	x

The Eltako wireless system works with the reliable and worldwide standardized EnOcean wireless technology in 868MHz.

It transmits ultra short and interference-proof signals with a range of up to 100 meters in halls.

Eltako wireless pushbuttons reduce the electrosmog load since they emit high-frequency waves that are 100 times weaker than conventional light switches. There is also a significant reduction in low-frequency alternating fields since fewer power cables need to be installed in the building.

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**TF100L-230V** Tap-radio® light actuator adapter

**Wireless light actuator adapter 10A/250V AC. 100x55x45 mm (measurements without plug), pure white. Impulse switch with NO contact. 230V incandescent lamps and halogen lamps 1000W, ESL and 230V LED lamps up to 200W. Standby loss only 0.8 watt. Smart Home actuator.**

Adapter for German fused safety sockets with increased shock protection. Using easy tap-radio® technology, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons as well as motion sensors TF-BSB and TF-BHSB can be taught in.



private series

<b>TF100L-230V</b>	Wireless light actuator adapter	EAN 4010312317013	<b>69,20 €/pc.</b>
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**TF100D-230V** Tap-radio® universal dimming actuator adapter

**Wireless universal dimming actuator adapter. 100x55x45 mm (measurements without plug), pure white. With power MOSFET. 230V incandescent lamps and halogen lamps up to 300W, 230V LEDs up to 100W. No inductive (wound) transformers. With children's rooms and snooze function. No minimum load. Standby loss only 0.7 watt. Smart Home actuator.**

Adapter for German fused safety sockets with increased shock protection. Using easy tap-radio® technology, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons as well as motion sensors TF-BSB and TF-BHSB can be taught in. During teach-in, the dimming actuator can be set to phase control to permit optimum dimming for various LED lamps.



private series

<b>TF100D-230V</b>	Wireless dimming actuator adapter	EAN 4010312317020	<b>84,20 €/pc.</b>
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**TF100A-230V** Tap-radio® signal generator adapter

**Wireless signal generator adapter 10A/250V AC. 100x55x45 mm (measurements without plug), pure white. In addition to an internal acoustic signal generator for a minimum volume of 80 dB, a plug-connected load flashes. 230V incandescent lamps and halogen lamps 1000W, ESL and 230V LED lamps up to 200W. Standby loss only 0.8 watt. Smart Home actuator.**

Adapter for German fused safety sockets with increased shock protection. Using easy tap-radio® technology, up to 24 wireless pushbuttons, wireless window contacts as well as motion sensors TF-BSB and TF-BHSB can be taught in. The acoustic signal generator can be deactivated.



private series

<b>TF100A-230V</b>	Wireless signal generator adapter	EAN 4010312317143	<b>68,20 €/pc.</b>
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# Wireless dimming actuators for lights, switch lighting and shading elements and signal generators



## TF61L-230V Tap-radio® light actuator

**Wireless light actuator 10A/250V AC, 45x45x18 mm. Impulse switch with NO contact, not potential free. 230V incandescent lamps and halogen lamps 1000W, ESL and 230V LED lamps up to 200W. Standby loss only 0.8 watt. Smart Home actuator.**

Using easy tap-radio® technology, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons as well as motion sensors TF-BSB and TF-BHSB can be taught in. In addition the actuator can be locally controlled with a conventional 230V wired pushbutton without glow lamp.



professional series

TF61L-230V

Wireless light actuator

EAN 4010312316993

51,10 €/pc.



## TF61D-230V Tap-radio® universal dimming actuator

**Wireless universal dimming actuator 45x45x33 mm. With power MOSFET. 230V incandescent lamps and halogen lamps up to 300W, 230V LEDs up to 100W. No inductive (wound) transformers. With children's rooms and snooze function. No minimum load. Standby loss only 0.7 watt. Smart Home actuator.**

Using easy tap-radio® technology, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons as well as motion sensors TF-BSB and TF-BHSB can be taught in. In addition the actuator can be locally controlled with a conventional 230V wired pushbutton without glow lamp. During teach-in, the dimming actuator can be set to phase control to permit optimum dimming for various LED lamps.



professional series

TF61D-230V

Wireless dimming actuator

EAN 4010312317044

62,50 €/pc.





**TF61J-230V** Tap-radio® shading element actuator

**Wireless shading element and roller shutter actuator 1+1 NO contact 4 A/250V AC for a shading element motor. 45x45x18 mm. Standby loss only 0.8 watt. Smart Home actuator.**

Using easy tap-radio® technology, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons can be taught in. In addition the actuator can be locally controlled with a conventional 230V wired pushbutton without glow lamp.



professional series

<b>TF61J-230V</b>	Wireless shading element actuator	EAN 4010312317037	<b>53,20 €/pc.</b>
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**TF61R-230V** Tap-radio® relay actuator

**Wireless relay actuator 10A/250V AC, 45x45x18 mm. 1 NO contact or NC contact, not potential free. Standby loss only 0.8 watt. Smart Home actuator.**

Using easy tap-radio® technology, up to 32 wireless pushbuttons and wireless window contacts can be taught in. In addition the actuator can be locally controlled with a conventional 230V wired pushbutton without glow lamp. During teach-in, the contact function in idle state can be defined as NO contact or NC contact. Closes the contact with at least one open window; it can then activate extraction hoods etc. or generate an alarm. Opens the contact with at least one open window: it can then switch off heaters or air conditioners.



professional series

<b>TF61R-230V</b>	Wireless relay actuator	EAN 4010312317082	<b>51,10 €/pc.</b>
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**TF-IUS**

**Tap-radio® indoor UP signal generator**

**Wireless signal generator pure white glossy for single mounting 84x84x17 mm or mounting into the E-design switching system. Internal acoustic signal generator for a minimum volume of 80dB. Power supply 230V. Only 0.8 watt standby loss. Smart Home sensor.**

Up to 24 wireless universal pushbuttons, wireless window contacts as well as motion sensors can be taught in.



professional series

**TF-IUS**

Indoor UP signal generator

EAN 4010312318850

**66,40 €/pc.**



**TF-IUS55**

**Tap-radio® indoor UP signal generator**

**Wireless signal generator pure white glossy for single mounting 80x80x17 mm or mounting into the 55 mm switch system. Internal acoustic signal generator for a minimum volume of 80dB. Power supply 230V. Only 0.8 watt standby loss. Smart Home sensor.**

Up to 24 wireless universal pushbuttons, wireless window contacts as well as motion sensors can be taught in.



professional series

**TF-IUS55**

Indoor UP signal generator

EAN 4010312318867

**66,40 €/pc.**



## TF-AHDSB Tap-radio® outdoor brightness twilight sensor

**Wireless outdoor brightness twilight sensor with solar cell pure white, battery (lifetime 3-5 years) and antenna rod, 60x46x30 mm plus antenna 85 mm. Actuators can cover the range from 0 to 50 Lux using the twilight switch function. Smart Home sensor.**

The electronic requires no intrinsic power supply, so there is no standby loss.

The wireless outdoor brightness sensor powered by a solar module and a button cell CR2032 covers the range from 0 to 30.000 Lux. From approx. 300 Lux, it transmits a wireless telegram every time there is a brightness change of more than approx. 500 Lux within approx. 10 seconds. If the brightness does not change, a control signal is sent approx. every 100 seconds.

**New actuators TF61R, TF61L, TF61D, TF-TA65L, TF-TA55L, TF-TA65D, TF-TA55D, TF100L and TF100D can cover the range from 0 to approx. 50 Lux using the twilight switch function. A wireless telegram is sent about every 100 seconds within this range.**

When the saved threshold value is undershot (0 to approx. 50 lux), the sensor sends an 'ON telegram' three times at intervals of 10 seconds. When brightness reaches approx. 500 lux, an 'OFF telegram' is sent 3 times at intervals of 10 seconds.

The allowable ambient temperature is -20°C to +55°C. Protection class IP54 is achieved by fitting the antenna rod pointing downwards.

For screw mounting or attachment with adhesive. The scope of supply comprises an adhesive foil and a set of screws and rawl plugs.



private series

TF-AHDSB	Wireless outdoor brightness twilight sensor	EAN 4010312318508	63,20 €/pc.
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## TF-BHSB Tap-radio® motion/brightness sensor

**Wireless motion/brightness sensor pure white glossy for single mounting 84x84x27mm or mounting into the E-design switching system. With solar cells and battery (lifetime 4-5 years). Smart Home sensor.**

The factory setting switches off taught-in light actuators and dimming actuators automatically if no motion is detected for 5 minutes. Switch-on is by means of the light pushbutton.

Place a jumper in 'active' position to enable automatic motion-dependent switch-on. The brightness threshold at which the sensor sends a Motion telegram is set by a potentiometer. The holding plate can be screwed to a flat surface or affixed to the ceiling or wall using the enclosed adhesive foil.

We recommend stainless-steel countersunk 2.9x25 mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch boxes. An adhesive foil and a set of 2 stainless-steel countersunk screws 2,9x25 mm and plugs 5x25 mm are enclosed.

The wireless sensor can be taught-in into the tap-radio® actuators TF61L, TF61D, TF-TA65L, TF-TA65D, TF-TA55L, TF-TA55D, TF100L and TF100D.



private series

TF-BHSB	Wireless motion/brightness sensor	EAN 4010312318379	74,80 €/pc.
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## Active wireless sensors



### TF-BHSB55 Tap-radio® motion/brightness sensor

**Wireless motion/brightness sensor pure white glossy for single mounting 80x80x27mm or mounting in the 55 mm switch system. With solar cells and battery (lifetime 4-5 years). Smart Home sensor.**

The factory setting switches off taught-in light actuators and dimming actuators automatically if no motion is detected for 5 minutes. Switch-on is by means of the light pushbutton.

Place a jumper in 'active' position to enable automatic motion-dependent switch-on. The brightness threshold at which the sensor sends a Motion telegram is set by a potentiometer.

The holding plate can be screwed to a flat surface or affixed to the ceiling or wall using the enclosed adhesive foil.

We recommend stainless-steel countersunk 2.9x25 mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch boxes. An adhesive foil and a set of 2 stainless-steel countersunk screws 2,9x25 mm and plugs 5x25 mm are enclosed.

The wireless sensor can be taught-in into the tap-radio® actuators TF61L, TF61D, TF-TA65L, TF-TA65D, TF- TA55L, TF-TA55D, TF100L and TF100D.



private series

TF-BHSB55

Wireless motion/brightness sensor

EAN 4010312318522

74,80 €/pc.



### TF-BSB Tap-radio® motion sensor

**Wireless motion sensor pure white glossy for surface mounting 84x84x27mm or mounting into the E-design switching system. With battery (lifetime 3 years). Smart Home Sensor.**

The factory setting switches off taught-in light actuators and dimming actuators automatically if no motion is detected for 5 minutes. Switch-on is by means of the light pushbutton.

Place a jumper in 'active' position to enable automatic motion-dependent switch-on.

We recommend stainless-steel countersunk 2.9x25 mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch boxes. An adhesive foil and a set of 2 stainless-steel countersunk screws 2,9x25 mm and plugs 5x25 mm are enclosed.

The wireless sensor can be taught-in into the tap-radio® actuators TF61L, TF61D, TF-TA65L, TF-TA65D, TF- TA55L, TF-TA55D, TF100L and TF100D.



private series

TF-BSB

Wireless motion sensor

EAN 4010312317280

71,50 €/pc.



## TF-BSB55 Tap-radio® motion sensor

**Wireless motion sensor pure white glossy for surface mounting 80x80x27mm or mounting in the 55 mm switch system. With battery (lifetime 3 years). Smart Home Sensor.**

The factory setting switches off taugt-in light actuators and dimming actuators automatically if no motion is detected for 5 minutes. Switch-on is by means of the light pushbutton.

Place a jumper in 'active' position to enable automatic motion-dependent switch-on.

We recommend stainless-steel countersunk 2.9x25mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch boxes. An adhesice foil and a set of 2 stainless-steel countersunk screws 2,9x25mm and plugs 5x25 mm are enclosed.

The wireless sensor can be taugt-in into the tap-radio® actuators TF61L, TF61D, TF-TA65L, TF-TA65D, TF- TA55L, TF-TA55D, TF100L and TF100D.



private series

TF-BSB55	Wireless motion sensor	EAN 4010312318300	71,50 €/pc.
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## TF-FTSB Tap-radio® humidity temperature sensor

**Wireless humidity temperature sensor pure white glossy for single mounting 84x84x17mm or mounting into the E-design switching system. With battery (lifetime 5 years). Smart Home sensor.**

The wireless humidity/temperature sensor measures constantly the relative humidity between 0 and 100% ( $\pm 5\%$ ) and the temperature between  $-20$  and  $+60^{\circ}\text{C}$  ( $\pm 0.5^{\circ}\text{C}$ ).

The wireless humidity/temperature sensor sends every 10 minutes a data telegram to the Eltako wireless building system. This interval can be reduced to 5 minutes by changing the position of the jumper, as described in the operating instructions.

Evaluation by actuator F2L14, the Smart Home central unit MiniSafe, SafeIV, TouchIV etc. with the Eltako Wireless Building app GFA4.

We recommend stainless-steel countersunk screws 2.9x25mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25mm and with 55 mm switch boxes. Set of 2 stainless-steel countersunk screws 2,9x25mm and plugs 5x25mm are enclosed.



private series

TF-FTSB	Wireless humidity temperature sensor	EAN 4010312317297	56,50 €/pc.
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## TF-FTSB55 Tap-radio® humidity temperature sensor

**Wireless humidity temperature sensor pure white glossy for single mounting 80x80x17mm or mounting in the 55 mm switch system. With battery (lifetime 5 years). Smart Home sensor.**

The wireless humidity/temperature sensor measures constantly the relative humidity between 0 and 100% ( $\pm 5\%$ ) and the temperature between  $-20$  and  $+60^{\circ}\text{C}$  ( $\pm 0.5^{\circ}\text{C}$ ).

The wireless humidity/temperature sensor sends every 10 minutes a data telegram to the Eltako wireless building system. This interval can be reduced to 5 minutes by changing the position of the jumper, as described in the operating instructions.

Evaluation by actuator F2L14, the Smart Home central unit MiniSafe, SafeIV, TouchIV etc. with the Eltako Wireless Building app GFA4.

We recommend stainless-steel countersunk screws 2.9x25mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25mm and with 55 mm switch boxes. Set of 2 stainless-steel countersunk screws 2,9x25mm and plugs 5x25mm are enclosed.



private series

TF-FTSB55	Wireless humidity temperature sensor	EAN 4010312318348	56,50 €/pc.
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## Active wireless sensors



### TF-TFB

### Tap-radio® temperature+humidity sensor

**Tap-radio-temperature+humidity sensor, pure white, glossy, 75x25x12 mm, with battery (lifetime 5 years). Smart Home sensor.**

The temperature humidity sensor measures constantly the relative humidity between 0 and 100% (+-5%) and the temperature between -20°C and +60°C (+-0,5°C). It sends a data telegram within 2 minutes if changed in the Eltako building radio.

If there is no change, a status telegram is sent every 10 minutes.

Adhesive foil mounting, an adhesive film is enclosed.

The electronics are powered by an internal button cell CR2032. To change only the housing needs to be opened. This is also required to activate the battery supply by pulling out an insulating strip.

On delivery, the EEP: A5-04-02 is active, the internal jumper is only on a pin. This jumper can be used on the EEP: A5-04-03 The housing must be opened and the jumper changed to both pins.

For teaching-in into a teachable actuator, the housing has to be opened and the inner button has to be pressed.



private series

TF-TFB

Wireless temperature+humidity sensor

EAN 4010312319154

55,00 €/pc.



### TF-HMB

### Tap-radio® heat detector

**Wireless heat detector pure white with wireless emitter module in the base. Ø86 mm, 48 mm high. With solar cell and battery (lifetime 10 years). Smart Home sensor.**

A heat alarm is indicated by a series of repeated sounds, the volume is at least 85 dB.

Operation is indicated by a red LED flashing every 48 seconds.

**The power supply of the smoke alarm detector is made by an internal, non-interchangeable lithium battery for about 10 years.** When the battery is at the end of its life, a short beep sound is produced. Then only the heat detector must be replaced. The power supply for the radio transmitter module is provided by a solar cell if sufficient brightness is present. In the delivery state, the battery is empty and must first be charged in daylight. If the room brightness is not sufficient for operation, a 3,6V lithium battery 1/2 AA (not included) must be inserted.

**The radio transmitter module sends an alarm telegram immediately to the Eltako wireless system. This is also done when the cover is pressed during the function test.**

As soon as the alarm extinguishes, an alarm-end telegram is sent.

Approx. every 30 minutes a status message is sent.

**To teach-in** the smoke detector in a prepared actuator, the button on the radio emitter must be pressed.

Temperature at mounting location: -10°C to +50°C.

**Installation** in kitchens, smoking rooms and garages.

**Functional check:** Once a month, carry out a functional check and keep at least 50cm away from the device since the alarm signal is loud!

By pressing the cover of the heat detector a sound will be emitted and the LED flashes twice red!



private series

TF-HMB

Wireless heat detector, pure white

EAN 4010312318799

106,00 €/pc.



## TF-LGTF

### Tap-radio® CO<sub>2</sub>+temperature+humidity sensor

**Wireless CO<sub>2</sub>+temperature +humidity sensor, pure white, glossy, for separate installation 84x84x17/33 mm or installation in the E-Design switching system. With LED display to signal room air quality. With additional alert tone. Power supply 230 V. Stand-by loss only 0.6 watt. Smart Home sensor.**

The sensor measures all total volatile organic compounds (TVOC) in the air, temperature from -20°C to +60°C and humidity from 0 to 100%.

Every change in TVOC value or a change of 5% in humidity or a change in temperature by 0.6° is signalled by wireless telegram to the Eltako wireless network within 30 seconds. If there is no change, a status telegram is sent every 10 minutes.

**Installation** in a 55 mm switch box: Screw on the mounting plate. Snap on the frame and plug in the front panel including the electronics. 230V power supply wired to the terminals at the rear.

We recommend stainless steel countersunk head screws 2.9x25 mm, DIN 7982 C for screw connections. Either with rawl plugs 5x25 mm or on 55 mm switch boxes. Set of 2 stainless steel countersunk head screws 2.9x25 mm and 2 rawl plugs 5x25 mm is enclosed.

After switching on the power supply, 5 beeps sound and the LED first lights up green. After a few minutes, the LED colour changes depending on the room air quality: The LED **shines green** up to 220 ppb (< 1mg/m<sup>3</sup>) = **good room air quality**. The LED **shines yellow** from 221 ppb to 660 ppb = **medium room air quality**. **We advise occasional airing**. The LED **flashes red** as of 661 ppb (> 3mg/m<sup>3</sup>). Every 3 minutes, **a 5-fold alert tone sounds** = **poor room air quality**. **Prolonged airing required**.

After switching on the power supply, teach-in telegrams with two different IDs are sent, one for the TVOC sensor followed by one for the temperature/humidity sensor.

The LED indicates that a telegram is sent by flashing once. The actual temperature is only measured approx. 30 minutes after the power supply is switched on while the electronics undergo temperature compensation.



professional series

TF-LGTF

CO<sub>2</sub>+temperature+humidity sensor

EAN 4010312318560

81,60 €/pc.



## TF-RWB

### Tap-radio® smoke detector

**Wireless smoke detector pure white with wireless emitter module in the base. Ø86 mm, 48 mm high. With solar cell and battery (lifetime 10 years). Smart Home sensor.**

This smoke alarm works according to the photoelectric principle. A fire alarm is indicated by a series of repeated sounds, the volume is at least 85 dB.

Operation is indicated by a red LED flashing every 48 seconds.

**The power supply of the smoke alarm detector is made by an internal, non-interchangeable lithium battery for about 10 years.** When the battery is at the end of its life, a short beep sound is produced. Then only the smoke alarm must be replaced.

The power supply for the radio transmitter module is provided by a solar cell if sufficient brightness is present. In the delivery state, the battery is empty and must first be charged in daylight. If the room brightness is not sufficient for operation, a 3,6V lithium battery 1/2 AA (not included) must be inserted.

**The radio transmitter module sends an alarm telegram immediately to the Eltako wireless system. This is also done when the cover is pressed during the function test.**

As soon as the alarm extinguishes, an alarm-end telegram is sent.

Approx. every 30 minutes a status message is sent.

**To teach-in** the smoke detector in a prepared actuator, the button on the radio emitter must be pressed.

Temperature at mounting location: +4°C to +38°C.

**Installation** in bedrooms, living rooms, store rooms, corridors and stairwells.

**Functional check:** Once a month, carry out a functional check and keep at least 50cm away from the device since the alarm signal is loud!

By pressing the cover of the smoke detector a sound will be emitted and the LED flashes twice red!



private series

TF-RWB

Wireless smoke detector, pure white

EAN 4010312318362

106,00 €/pc.

## Active wireless sensors



### TF-SUD

### Tap-radio® timer

**Wireless timer with display and with 8 channels pure white glossy for single mounting 84x84x14/33mm or mounting into the E-design switching system. With 'astro' function and solstice time changes. Illuminated display. Approx. 7 days power reserve. Only 0.5 watt standby loss. Smart Home sensor.**

Up to 60 timer memory locations are freely assigned to the channels. With date and automatic summer/winter time changeover.

**The timer is set using the MODE and SET buttons and the settings can be interlocked.**

**The display light is going on by pressing MODE or SET.**

20 seconds after you last press MODE or SET, the program returns automatically to normal display and the display light goes off.

**Mounting** over a 55mm switch box. 14mm over and 33mm into the box. 230V power supply terminals on the rear.



professional series

TF-SUD

Timer with display, pure white glossy

EAN 4010312318027

74,80 €/pc.



### TF-SUD55

### Tap-radio® timer

**Wireless timer with display and with 8 channels pure white glossy for single mounting 80x80x14/33mm or mounting in the 55mm switch system. With 'astro' function and solstice time changes. Illuminated display. Approx. 7 days power reserve. Only 0.5 watt standby loss. Smart Home sensor.**

Up to 60 timer memory locations are freely assigned to the channels. With date and automatic summer/winter time changeover.

**The timer is set using the MODE and SET buttons and the settings can be interlocked.**

**The display light is going on by pressing MODE or SET.**

20 seconds after you last press MODE or SET, the program returns automatically to normal display and the display light goes off.

**Mounting** over a 55mm switch box. 14mm over and 33mm into the box. 230V power supply terminals on the rear.



professional series

TF-SUD55

Timer with display, pure white glossy

EAN 4010312318331

74,80 €/pc.





## TF-TRHB Tap-radio® temperature controller

**Wireless temperature controller with hand wheel pure white glossy for single mounting 84x84x27 mm or mounting into the E-design switching system. With battery (lifetime 4 years). Smart Home sensor.**

The temperature controller can be taught-in into the relay actuator TF61R or the heating cooling actuator FHK and into the GFVS software. When setpoint temperature changes by min. 0.15°C, the temperature controller sends a message to the Eltako Building Wireless System. If there is no change, a status message is sent every 5 minutes. A jumper defines the function mode. In the TF61 operating mode, only ON or OFF are sent, depending on the difference between setpoint and actual temperature. Measurement accuracy is approx. 1°C.

The **setpoint temperature** is set with the hand wheel from 12°C to 28°C.

In the ❄️ position, the set temperature is 8°C (frost protection).

We recommend stainless-steel countersunk 2.9x25 mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch boxes. Set of 2 stainless-steel countersunk screws 2,9x25 mm and plugs 5x25 mm are enclosed.



private series

TF-TRHB

Temperature controller with hand wheel, pure white glossy

EAN 4010312317402

66,80 €/pc.



## TF-TRHB55 Tap-radio® temperature controller

**Wireless temperature controller with hand wheel pure white glossy for single mounting 80x80x27 mm or mounting in the 55 mm switch system. With battery (lifetime 4 years). Smart Home sensor.**

The temperature controller can be taught-in into the relay actuator TF61R or the heating cooling actuator FHK and into the GFVS software. When setpoint temperature changes by min. 0.15°C, the temperature controller sends a message to the Eltako Building Wireless System. If there is no change, a status message is sent every 5 minutes. A jumper defines the function mode. In the TF61 operating mode, only ON or OFF are sent, depending on the difference between setpoint and actual temperature. Measurement accuracy is approx. 1°C.

The **setpoint temperature** is set with the hand wheel from 12°C to 28°C.

In the ❄️ position, the set temperature is 8°C (frost protection).

We recommend stainless-steel countersunk 2.9x25 mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch boxes. Set of 2 stainless-steel countersunk screws 2,9x25 mm and plugs 5x25 mm are enclosed.



private series

TF-TRHB55

Temperature controller with hand wheel, pure white glossy

EAN 4010312318317

66,80 €/pc.

## Active wireless sensors



### TF-TRSB

### Tap-radio® temperature controller

**Wireless temperature controller pure white glossy for single mounting 84x84x27mm or mounting into the E-design switching system. With solar cells and battery (lifetime 5 years). Smart Home sensor.**

The temperature controller can be taught-in into the relay actuator TF61R or the heating cooling actuator FHK and into the GFVS software. When setpoint temperature changes by min. 0.15°C, the temperature controller sends a message to the Eltako Building Wireless System. If there is no change, a status message is sent every 5 minutes. A jumper defines the function mode. In the TF61 operating mode, only ON or OFF are sent, depending on the difference between setpoint and actual temperature. Measurement accuracy is approx. 1°C.

The **day reference temperature** that ranges from +12°C to +28°C is changed using the hand wheel.

In the position ❄️ the temperature control is off and the frost protection function activated. We recommend stainless-steel countersunk 2.9x25mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25mm and with 55mm switch boxes. Set of 2 stainless-steel countersunk screws 2,9x25mm and plugs 5x25mm are enclosed.



private series

TF-TRSB

Wireless temperature controller

EAN 4010312318454

65,80 €/pc.



### TF-TRSB55

### Tap-radio® temperature controller

**Wireless temperature controller pure white glossy for single mounting 80x80x27mm or mounting in the 55 mm switch system. With solar cells and battery (lifetime 5 years). Smart Home sensor.**

The temperature controller can be taught-in into the relay actuator TF61R or the heating cooling actuator FHK and into the GFVS software. When setpoint temperature changes by min. 0.15°C, the temperature controller sends a message to the Eltako Building Wireless System. If there is no change, a status message is sent every 5 minutes. A jumper defines the function mode. In the TF61 operating mode, only ON or OFF are sent, depending on the difference between setpoint and actual temperature. Measurement accuracy is approx. 1°C.

The **day reference temperature** that ranges from +12°C to +28°C is changed using the hand wheel.

In the position ❄️ the temperature control is off and the frost protection function activated. We recommend stainless-steel countersunk 2.9x25mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25mm and with 55mm switch boxes. Set of 2 stainless-steel countersunk screws 2,9x25mm and plugs 5x25mm are enclosed.



private series

TF-TRSB55

Wireless temperature controller

EAN 4010312318461

65,80 €/pc.



**TF-TRDB Tap-radio® temperature controller with display**

**Wireless temperature controller with display pure white glossy for single mounting 84x84x22 mm or mounting into the E-design switching system. With solar cell and battery (lifetime 3-5 years). Smart Home sensor.**

The sensor sends a message every 100 seconds to the Eltako wireless network at an actual temperature change of minimum 0.3°C. The bistable display is updated.

A change in reference temperature is sent immediately. The display is updated.

If there is no change, a status report is sent every 17 minutes.

Measurement accuracy is approx. 1°C.

**Installation:**

Screw on the holding plate including its electronics. Then snap on the frame, remove the battery insulation, and mount the cover panel together with the display and solar cells.

We recommend stainless-steel countersunk screws 2.9x25 mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch boxes.

Set of 2 stainless-steel countersunk screws 2,9x25mm and plugs 5x25mm are enclosed.



private series

**TF-TRDB**

Wireless temperature controller with display, pure white glossy

EAN 4010312319352

**89,20 €/pc.**



**TF-TRDB55 Tap-radio® temperature controller with display**

**Wireless temperature controller with display pure white glossy for single mounting 80x80x22 mm or mounting in the 55mm switch system. With solar cell and battery (lifetime 3-5 years). Smart Home sensor.**

The sensor sends a message every 100 seconds to the Eltako wireless network at an actual temperature change of minimum 0.3°C. The bistable display is updated.

A change in reference temperature is sent immediately. The display is updated.

If there is no change, a status report is sent every 17 minutes.

Measurement accuracy is approx. 1°C.

**Installation:**

Screw on the holding plate including its electronics. Then snap on the frame, remove the battery insulation, and mount the cover panel together with the display and solar cells.

We recommend stainless-steel countersunk screws 2.9x25 mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch boxes.

Set of 2 stainless-steel countersunk screws 2,9x25mm and plugs 5x25mm are enclosed.



private series

**TF-TRDB55**

Wireless temperature controller with display, pure white glossy

EAN 4010312319369

**89,20 €/pc.**

## Active wireless sensors



professional series

### TF-UTH

#### Tap-radio® clock thermo hygrostat

**Wireless clock thermo hygrostat with display pure white glossy for single mounting 84x84x14/33 mm or mounting into the E-design switching system. With adjustable day and night reference temperatures and relative humidity. Illuminated display. Preset ready to operate. Approx. 7 days power reserve. Power supply 230V. Only 0.5 watt standby loss. Smart Home sensor.**

Up to 60 timer memory locations are freely assigned to the channels. With date and automatic summer/winter time changeover. The wireless clock thermo hygrostat sends a message to the Eltako wireless network every 50 seconds when there is an actual temperature change of minimum 0.3°C or a change in humidity of 5%. A change in reference temperature or relative humidity is sent immediately. If there is no change, a status report is sent every 10 minutes. **Queries of a wireless small actuator FKS which are received approximately every 10 minutes will be answered immediately.** A complete switching programme is preset and can be very easily changed. The factory setting for night temperature is 18°C. **Mounting** over a 55 mm switch box. 14 mm over and 33 mm into the box. 230V power supply terminals on the rear.

TF-UTH

Wireless clock thermo hygrostat with display pure white glossy

EAN 4010312317327

71,50 €/pc.



professional series

### TF-UTH55

#### Tap-radio® clock thermo hygrostat

**Wireless clock thermo hygrostat with display pure white glossy for single mounting 80x80x14/33 mm or mounting in the 55 mm switch system. With adjustable day and night reference temperatures and relative humidity. Illuminated display. Preset ready to operate. Approx. 7 days power reserve. Power supply 230V. Only 0.5 watt standby loss. Smart Home sensor.**

Same functions as TF-UTH.

TF-UTH55

Wireless clock thermo hygrostat with display pure white glossy

EAN 4010312318324

71,50 €/pc.



### TF-FKS

#### Tap-radio® actuator

**The SmartDrive MX wireless mini actuator from Hora has a large display to set the setpoint. No connecting cable since it is battery-powered. Smart Home sensor.**

Room temperature control for constant control in combination with the wibutler app and/or the TF-UTH clock thermo-hygrostat.

**Fitted to conventional radiator valves of many manufacturers.**

The actuator is powered by 2 alkaline AA Mignon batteries with a service life of up to 4 years. Energy-saving technologies and sophisticated mechanical devices ensure a very low energy consumption.



private series

TF-FKS

Small actuator

EAN 4010312317389

136,50 €/pc.



## TF-1FT

### Tap-radio® wireless pushbutton

**1-way wireless flat pushbutton for single mounting 84x84x16 mm or mounting into the E-design switching system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss. Smart Home sensor.**

Wireless pushbuttons with one rocker can send one evaluable signal. Press the bottom of the rocker near the mark.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55mm socket box for screw mounting.



private series

TF-1FT

1-way wireless pushbutton

EAN 4010312317198

30,50 €/pc.



## TF-WTB

### Tap-radio® rocker pushbutton

**1-way wireless rocker pushbutton pure white glossy for single mounting 84x84x19 mm or mounting into the E-design switching system. With battery (lifetime 5-8 years). Smart Home sensor.**

An evaluable signal is sent when pressed irrespective of the rocker position and the light is switched on and off in the same way as a conventional light switch.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55mm socket box for screw mounting.



private series

TF-WTB

Wireless rocker pushbutton

EAN 4010312318041

53,90 €/pc.

## Passive wireless sensors



Pushbutton with rocker



Pushbutton with double rocker

### TF-4FT

#### Tap-radio® wireless pushbutton

**4-way wireless pushbutton pure white glossy for single mounting 84x84x16 mm or mounting into the E-design switching system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss. Smart Home sensor.**

**The scope of supply comprises a rocker and a double rocker.**

Wireless pushbuttons with one rocker can transmit two evaluable signals: press rocker up and press rocker down. Wireless pushbuttons with double rocker can transmit four evaluable signals: press two rockers up or down.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55mm socket box for screw mounting.

The double rocker is snapped onto the wireless module at the factory. If the double rocker is replaced by the large rocker, remove the rocker halves by pulling off to the front. Do not bend towards the middle. Then snap the large rocker so that the markings 0 and I on the back line up with the same markings on the wireless module.



private series

TF-4FT

4-way wireless pushbutton

EAN 4010312317105

35,90 €/pc.



Pushbutton with rocker  
laser engraved



### TF-2ZT

#### Tap-radio® 2-way central control pushbutton

**2-way wireless pushbutton pure white glossy for single mounting 84x84x16 mm or mounting into the E-design switching system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss. With laser engraved rocker. Smart Home sensor.**

Wireless pushbuttons with one rocker can transmit two evaluable signals: press rocker up and press rocker down.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55mm socket box for screw mounting.



private series

TF-2ZT

2-way wireless pushbutton

EAN 4010312318737

42,90 €/pc.



Wireless pushbutton with double rocker



## TF-4PT-gb Tap-radio® profile pushbutton

**4-way wireless pushbutton pure white glossy for single mounting 84x84x16 mm or mounting into the E-design switching system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss. With laser engraved double rocker. Smart Home Sensor.**

Rocker laser engraved with 'Home Day/Night', 'Away' and 'Vacation'.

The mounting panel can only be screwed on a flat surface or fixed to the wall, on glass or furniture using the enclosed adhesive film. By means of a 55mm switch box, use the sleeves for screw connection supplied in the socket.



private series

TF-4PT-gb

4-way profile pushbutton

EAN 4010312317624

42,90 €/pc.



## TF-DTB Tap-radio® wireless rotary switch

**1-way wireless rotary switch pure white glossy, for single mounting 84x84x25 mm or mounting into the E-design switching system. With batteries (lifetime 2-8 years). Smart Home sensor.**

**All Eltako wireless dimmers can be controlled by this wireless rotary switch, and also the wireless switching actuators TF61L, TF100L and FSR61.**

To teach in the wireless rotary switch in the actuators, pull off the rotary knob and the front panel. Press and hold the mini pushbutton (LRN) which is then accessible and briefly press the rotary knob shaft.

The power supply is an internal 3V CR2032 button cell and has a service life of several years.

To replace the button cell, just remove the front panel and the rotary knob.

**Mounting:** Screw on mounting plate. Then snap on the frame, remove the battery insulation, plug on the rotary knob and snap on the front panel.

Use the sleeves in the 55mm socket box for screw mounting.

We recommend stainless-steel countersunk screws 2.9x25mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25mm and with 55mm switch boxes. Set of 2 stainless-steel countersunk screws 2.9x25mm and plugs 5x25mm are enclosed.

**Only in combination with dimmers:** the minimum brightness can be adjusted in 3 levels with a jumper as well as the soft on function.



private series

TF-DTB

Wireless rotary switch

EAN 4010312317884

59,90 €/pc.

## Passive wireless sensors



### TF-TA65D

#### Tap-radio® wireless pushbutton actuator dimming

**Wireless pushbutton actuator dimming. For single mounting 84x84x16/33mm or mounting into the E-design switching system. Pure white glossy. With Power MOSFET. 230V incandescent and halogen lamps up to 300W, 230V LED lamps up to 100W. No inductive (wound) transformers. With switching operation for children's rooms and snooze function. With integrated universal/direction pushbutton and terminals for additional wired pushbuttons. Power supply 230V. Only 0.7 watt standby loss. Smart Home sensor and actuator.**

**Using easy tap-radio® technology**, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons and motion sensors TF-BSB can be taught in. In addition the actuator can be locally controlled with a conventional 230V wired pushbutton without glow lamp.

The integrated pushbutton works ex work as an universal pushbutton and can be taught-in as an direction pushbutton using the corresponding tap-radio tapping code.

**Mounting** over a 55mm switch box. 16mm over and 33mm into the box. 230V power supply and wired pushbutton terminals on the rear.



professional series

TF-TA65D

Pushbutton actuator dimming

EAN 4010312317952

60,80 €/pc.



### TF-TA65DL

#### Tap-radio® wireless pushbutton actuator dimming w/o N connection

**Wireless pushbutton actuator dimming without N connection. For single mounting 84x84x16/33mm or mounting into the E-design switching system. Pure white glossy. With Power MOSFET. 230V incandescent and halogen lamps up to 200W, depending on ventilation conditions. Energy saving lamps ESL and 230V LED lamps in 'trailing edge' mode up to 200W or up to 40W in 'leading edge' mode, depending on ventilation conditions. Min. load 20W at 'trailing edge' mode and 8W at 'leading edge' mode. No inductive (wound) transformers. With switching operation for children's rooms and snooze function. With integrated universal/direction pushbutton and terminals for additional wired pushbuttons. Power supply 230V. Only 0.7 watt standby loss. Smart Home sensor and actuator.**

**Using easy tap-radio® technology**, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons and motion sensors TF-BSB can be taught in. In addition the actuator can be locally controlled with a conventional 230V wired pushbutton without glow lamp.

The integrated pushbutton works ex work as an universal pushbutton and can be taught-in as an direction pushbutton using the corresponding tap-radio tapping code.

**Mounting** over a 55mm switch box. 16mm over and 33mm into the box. 230V power supply and wired pushbutton terminals on the rear.



professional series

TF-TA65DL

Pushbutton actuator dimming

EAN 4010312318621

60,80 €/pc.





## TF-TA65J Tap-radio® wireless pushbutton actuator shading

**Wireless pushbutton actuator shading, 1+1 NO contact 4 A/250V AC for one shading element motor. For single mounting 84x84x16/33 mm or mounting into the E-design switching system. Pure white glossy. With integrated universal/direction pushbutton and terminals for additional wired pushbuttons. Power supply 230V. Only 0.8 watt standby loss. Smart Home sensor and actuator.**

**Using easy tap-radio® technology**, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons and motion sensors TF-BSB can be taught in. In addition the actuator can be locally controlled with a conventional 230V wired pushbutton without glow lamp.

The integrated pushbutton works ex work as an universal pushbutton and can be taught-in as an direction pushbutton using the corresponding tap-radio tapping code.

**Mounting** over a 55 mm switch box. 16 mm over and 33 mm into the box. 230V power supply and wired pushbutton terminals on the rear.



professional series

TF-TA65J	Pushbutton actuator shading	EAN 4010312317969	53,20 €/pc.
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## TF-TA65L Tap-radio® pushbutton actuator light switch

**Wireless pushbutton actuator light switch 10A/250V AC. For single mounting 84x84x16/33 mm or mounting into the E-design switching system. Pure white glossy. Impuls switch with 1 NO contact, not potentialfree, 230V incandescent and halogen lamps 1000W, ESL and 230V LED lamps up to 200W. With integrated universal/direction pushbutton and terminals for additional wired pushbuttons. Power supply 230V. Only 0.8 watt standby loss. Smart Home sensor and actuator.**

**Using easy tap-radio® technology**, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons and motion sensors TF-BSB can be taught in. In addition the actuator can be locally controlled with a conventional 230V wired pushbutton without glow lamp.

The integrated pushbutton works ex work as an universal pushbutton and can be taught-in as an direction pushbutton using the corresponding tap-radio tapping code.

**Mounting** over a 55 mm switch box. 16 mm over and 33 mm into the box. 230V power supply and wired pushbutton terminals on the rear.



professional series

TF-TA65L	Pushbutton actuator light switch	EAN 4010312317945	52,30 €/pc.
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## Passive wireless sensors



**TF-WTB55**

**Tap-radio® rocker pushbutton**

**1-way wireless rocker pushbutton pure white glossy for single mounting 80x80x19mm or mounting in the 55mm switch system. With battery (lifetime 5-8 years). Smart Home sensor.**

An evaluable signal is sent when pressed irrespective of the rocker position and the light is switched on and off in the same way as a conventional light switch.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55mm socket box for screw mounting.



private series

**TF-WTB55**

Wireless rocker pushbutton

EAN 4010312318034

**53,90 €/pc.**



Pushbutton with rocker



Pushbutton with double rocker

**TF-4FT55**

**Tap-radio® wireless pushbutton**

**4-way wireless pushbutton pure white glossy for single mounting 80x80x15mm or mounting in the 55mm switch system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss. Smart Home sensor.**

**The scope of supply comprises a rocker and a double rocker.**

Wireless pushbuttons with one rocker can transmit two evaluable signals: press rocker up and press rocker down. Wireless pushbuttons with double rocker can transmit four evaluable signals: press two rockers up or down.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55mm socket box for screw mounting.

The double rocker is snapped onto the wireless module at the factory. If the double rocker is replaced by the large rocker, remove the rocker halves by pulling off to the front. Do not bend towards the middle. Then snap the large rocker so that the markings 0 and I on the back line up with the same markings on the wireless module.



private series

**TF-4FT55**

4-way wireless pushbutton

EAN 4010312317891

**35,90 €/pc.**



Pushbutton with rocker laser engraved



## TF-2ZT55

### Tap-radio® 2-way central control pushbutton

**2-way wireless pushbutton pure white glossy for single mounting 80x80x15 mm or mounting in the 55 mm switch system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss. With laser engraved rocker. Smart Home sensor.**

Wireless pushbuttons with one rocker can transmit two evaluable signals: press rocker up and press rocker down.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55 mm socket box for screw mounting.



private series

TF-2ZT55

2-way wireless pushbutton

EAN 4010312318744

42,90 €/pc.



Wireless pushbutton with double rocker



## TF-4PT55-gb

### Tap-radio® profile pushbutton

**4-way wireless pushbutton pure white glossy for single mounting 80x80x15 mm or mounting in the 55 mm switch system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss. With laser engraved double rocker. Smart Home sensor.**

Rocker laser engraved with 'Home Day/Night', 'Away' and 'Vacation'.

The mounting panel can only be screwed on a flat surface or fixed to the wall, on glass or furniture using the enclosed adhesive film. By means of a 55 mm switch box, use the sleeves for screw connection supplied in the socket.



private series

TF-4PT55-gb

4-way profile pushbutton

EAN 4010312318164

42,90 €/pc.

## Passive wireless sensors



### TF-DTB55

#### Tap-radio® wireless rotary switch

**1-way wireless rotary switch pure white glossy, for single mounting 80x80x25mm or mounting in the 55 mm switch system. With batteries (lifetime 2-8 years). Smart Home sensor.**

**All Eltako wireless dimmers can be controlled by this wireless rotary switch, and also the wireless switching actuators TF61L, TF100L and FSR61.**

To teach in the wireless rotary switch in the actuators, pull off the rotary knob and the front panel. Press and hold the mini pushbutton (LRN) which is then accessible and briefly press the rotary knob shaft.

The power supply is an internal 3V CR2032 button cell and has a service life of several years. To replace the button cell, just remove the front panel and the rotary knob.

**Mounting:** Screw on mounting plate. Then snap on the frame, remove the battery insulation, plug on the rotary knob and snap on the front panel.

Use the sleeves in the 55 mm socket box for screw mounting.

We recommend stainless-steel countersunk screws 2.9x25mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25mm and with 55mm switch boxes. Set of 2 stainless-steel countersunk screws 2.9x25mm and plugs 5x25mm are enclosed.

**Only in combination with dimmers:** the minimum brightness can be adjusted in 3 levels with a jumper as well as the soft on function.



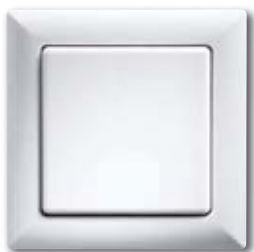
private series

TF-DTB55

Wireless rotary switch

EAN 4010312318263

59,90 €/pc.



### TF-TA55D

#### Tap-radio® wireless pushbutton actuator dimming

**Wireless pushbutton actuator dimming. For single mounting 80x80x15/33mm or mounting in the 55 mm switch system. Pure white glossy. With Power MOSFET. 230V incandescent and halogen lamps up to 300W, 230V LED lamps up to 100W. No inductive (wound) transformers. With switching operation for children's rooms and snooze function. With integrated universal/direction pushbutton and terminals for additional wired pushbuttons. Power supply 230V. Only 0.7 watt standby loss. Smart Home sensor and actuator.**

**Using easy tap-radio® technology,** up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons and motion sensors TF-BSB can be taught in. In addition the actuator can be locally controlled with a conventional 230V wired pushbutton without glow lamp..

The integrated pushbutton works ex work as an universal pushbutton and can be taught-in as an direction pushbutton using the corresponding tap-radio tapping code.

**Mounting** over a 55mm switch box. 15mm over and 33mm into the box. 230V power supply and wired pushbutton terminals on the rear.



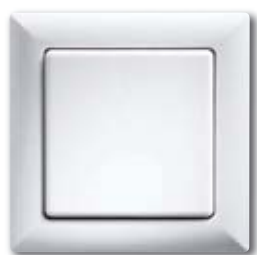
professional series

TF-TA55D

Pushbutton actuator dimming

EAN 4010312317983

60,80 €/pc.



## TF-TA55DL

Tap-radio® wireless pushbutton actuator dimming w/o N connection

**Wireless pushbutton actuator dimming without N connection. For single mounting 80x80x15/33 mm or mounting in the 55 mm switch system. Pure white glossy. With Power MOSFET. 230V incandescent and halogen lamps up to 200W, depending on ventilation conditions. Energy saving lamps ESL and 230V LED lamps in 'trailing edge' mode up to 200W or up to 40W in 'leading edge' mode, depending on ventilation conditions. Min. load 20W at 'trailing edge' mode and 8W at 'leading edge' mode. No inductive (wound) transformers. With switching operation for children's rooms and snooze function. With integrated universal/direction pushbutton and terminals for additional wired pushbuttons. Power supply 230V. Only 0.7 watt standby loss. Smart Home sensor and actuator.**

**Using easy tap-radio® technology**, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons and motion sensors TF-BSB can be taught in. In addition the actuator can be locally controlled with a conventional 230V wired pushbutton without glow lamp.

The integrated pushbutton works ex work as an universal pushbutton and can be taught-in as an direction pushbutton using the corresponding tap-radio tapping code.

**Mounting** over a 55mm switch box. 15mm over and 33mm into the box. 230V power supply and wired pushbutton terminals on the rear.



professional series

TF-TA55DL

Pushbutton actuator dimming

EAN 4010312318645

60,80 €/pc.



## TF-TA55J

Tap-radio® wireless pushbutton actuator shading

**Wireless pushbutton actuator shading, 1+1 NO contact 4 A/250V AC for one shading element motor. For single mounting 80x80x15/33 mm or mounting in the 55 mm switch system. Pure white glossy. With integrated universal/direction pushbutton and terminals for additional wired pushbuttons. Power supply 230V. Only 0.8 watt standby loss. Smart Home sensor and actuator.**

**Using easy tap-radio® technology**, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons and motion sensors TF-BSB can be taught in. In addition the actuator can be locally controlled with a conventional 230V wired pushbutton without glow lamp.

The integrated pushbutton works ex work as an universal pushbutton and can be taught-in as an direction pushbutton using the corresponding tap-radio tapping code.

**Mounting** over a 55mm switch box. 15mm over and 33mm into the box. 230V power supply and wired pushbutton terminals on the rear.



professional series

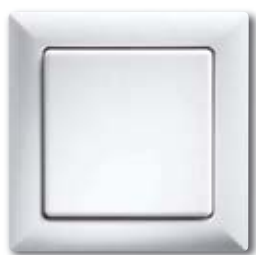
TF-TA55J

Pushbutton actuator shading

EAN 4010312317990

53,20 €/pc.

## Passive wireless sensors



### TF-TA55L

#### Tap-radio® pushbutton actuator light switch

**Wireless pushbutton actuator light switch 10A/250V AC. For single mounting 80x80x15/33mm or mounting in the 55mm switch system. Pure white glossy. Impuls switch with 1 NO contact, not potentialfree, 230V incandescent and halogen lamps 1000W, ESL and 230V LED lamps up to 200W. With integrated universal/direction pushbutton and terminals for additional wired pushbuttons. Power supply 230V. Only 0.8 watt standby loss. Smart Home sensor and actuator.**

**Using easy tap-radio® technology**, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons and motion sensors TF-BSB can be taught in. In addition the actuator can be locally controlled with a conventional 230V wired pushbutton without glow lamp.

The integrated pushbutton works ex work as an universal pushbutton and can be taught-in as an direction pushbutton using the corresponding tap-radio tapping code.

**Mounting** over a 55mm switch box. 15mm over and 33mm into the box. 230V power supply and wired pushbutton terminals on the rear.



professional series

TF-TA55L

Pushbutton actuator light switch

EAN 4010312317976

52,30 €/pc.



### TF-FGB

#### Tap-radio® window handle sensor

**Wireless window handle sensor pure white, 120x35x7 mm, with battery (lifetime 7 years). Installation behind conventional window handle. Smart Home sensor.**

Wireless transmit telegrams for window positions open, tilted and closed.

Status telegram every 15 minutes.

**Very simple installation under standard window handle: unscrew handle, affix sensor, screw handle back on.**



private series

TF-FGB

Wireless window handle sensor, pure white

EAN 4010312318881

63,20 €/pc.



## TF-FKB Tap-radio® window contact

**Wireless window contact pure white glossy, 75x25x12 mm, with battery (lifetime 7 years). Magnet pure white 37x10x6 mm. Smart Home sensor.**

On opening and closing, the related telegram is sent twice in short succession. The current status telegram is sent cyclically every approx. 8 minutes. Attach by bonding. Evaluation via tap-radio® relay actuator TF61R-230V, tap-radio® shading element actuator TF61J-230V as well as the Smart Home control units MiniSafe, MiniSafe REG, SafeIV, TouchIV etc.



private series

TF-FKB	Wireless window contact	EAN 4010312317099	51,60 €/pc.
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## TF-FKE Tap-radio® window contact

**Wireless window contact with energy generator pure white, 48x32x11.5 mm. Also to monitor doors, drawers and other moving devices. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss. Smart Home sensor.**

Generates the power for wireless telegrams itself when the lever is pressed, therefore there is no battery, no connecting wire and no standby loss.

A wireless telegram is sent on closing and opening.

Evaluation via tap-radio® relay actuator TF61R-230V and tap-radio® shading element actuator TF61J-230V as well as the Smart Home control units MiniSafe, MiniSafe REG, SafeIV, TouchIV etc.

Mounting with the delivered adhesive foil, by screwing or with the delivered mounting bracket. The 48mm long lever can be shortened to 27 mm by removing a part.



private series

TF-FKE	Wireless window contact	EAN 4010312317174	44,90 €/pc.
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## TF-FTE Tap-radio® window touch contact

**Wireless window touch contact with energy generator pure white, 48x32x11.5 mm. Also to monitor doors, drawers and other moving devices. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss. Smart Home sensor.**

A wireless telegram is sent on closing and opening.

Evaluation via tap-radio® relay actuator TF61R-230V and tap-radio® shading element actuator TF61J-230V as well as the Smart Home control units MiniSafe, MiniSafe REG, SafeIV, TouchIV etc.

Mounting with the delivered adhesive foil, by screwing or with the delivered mounting bracket.



private series

TF-FTE	Wireless window touch contact	EAN 4010312317419	45,70 €/pc.
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## Passive wireless sensors



### TF-8FM

### Tap-radio® mini hand-held transmitter

**8-way wireless mini hand-held transmitter, pure white, with 8 buttons for 8 different pushbutton telegrams. 85x45x18 mm, weighs only 60 grams. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss. Upper part laser engraved. Smart Home sensor.**

Generates the power for wireless telegrams when a button is pressed, therefore no standby loss. The buttons are printed with the numbers 1 to 6 and the symbols for Central ON and Central OFF.



private series

TF-8FM

8-way wireless mini hand-held transmitter

EAN 4010312317112

59,90 €/pc.



### TF-TTB

### Tap-radio® pushbutton tracker

**Wireless pushbutton tracker with battery (lifetime 5-8 years). 55 x 44 mm, 15 mm high. Weighs only 20 grams. Smart Home sensor.**

The TF-TTB wireless pushbutton tracker has a blue pushbutton to send normal pushbutton telegrams.

After opening the housing (grasp into the joint and prise apart), switch the tracker on by shifting the slide switch to the *Tr* position.

The sensor then sends a presence telegram every 60 seconds.

An internal 3V button cell CR2032 supplies power for several years.

The wireless sensor can be taught in as a tracker (presence detector) in the following actuators and in the GFVS: TF61L, TF61D, TF-TA65L, TF-TA65D, TF-TA55L, TF-TA55D, TF100L and TF100D.



private series

TF-TTB

Pushbutton tracker

EAN 4010312317563

58,20 €/pc.



## MiniSafe Smart Home control unit

The MiniSafe as Smart Home control unit receives EnOcean signals from many Eltako sensors and actuators, in particular all tap-radio® models, and permits highly encrypted access, both internally and externally, with the app GFA4 by smartphone or tablet. Smart Home controller.

MiniSafe connected to the local network via Ethernet. The intended use of the MiniSafe is the bidirectional communication with EnOcean wireless signals over Ethernet (TCP/IP).

**Scope of supply:** MiniSafe, wall adapter power supply, 1x ethernet cable 2m RJ45, quick start guide, instruction for downloading the app GFA4.

**Specifications:** Processor: Intel X1021, memory: 1 GB DDR3 RAM + 4 GB eMMC, LAN: 1x 10/100Mbit ethernet, integrated EnOcean-868MHz wireless module (TCM310) ESP3, power supply 5V, plastic housing pure white glossy, dimensions: 165x70x35mm with slots for wall mounting and feet to put down, weight: 175 grams.

The IP configuration is performed via the app GFA4 from the Android app store or Apple app store.



private series

MiniSafe

Smart Home control unit

EAN 4010312319079

297,00 €/pc.

## MiniSafe REG Smart Home control unit DIN rail mounted device

The MiniSafe REG as Smart Home control unit receives EnOcean signals from many Eltako sensors and actuators and permits highly encrypted access, both internally and externally, with the Eltako Wireless Building app GFA4 by smartphone or tablet. Smart Home controller.

MiniSafe REG connected to the local network via Ethernet. The intended use of the MiniSafe REG is the bidirectional communication with EnOcean wireless signals over Ethernet (TCP/IP).

**Scope of supply:** MiniSafe REG, wireless antenna, wall adapter power supply, 1x ethernet cable 2m RJ45, 2x DIN rail adapters, quick start guide, instruction for downloading the app GFA4.

**Specifications:** Processor: Intel X1021, memory: 1 GB DDR3 RAM + 4 GB eMMC, LAN: 1x 10/100Mbit ethernet, integrated EnOcean-868MHz wireless module (TCM310) ESP3, power supply 5V, plastic housing pure white glossy, dimensions: 165x70x35mm with slots for wall mounting and feet to put down, weight: 175 grams.

The IP configuration is performed via the app GFA4 from the Android app store or Apple app store.

The enclosed small antenna can be replaced with a wireless antenna FA250 with magnetic base and cable.

Can be mounted on an DIN rail DIN-EN 60715 TH35 with the DIN Rail adapters for the long holes, 10 pitches wide. Instead of the adapter plug, the DIN-rail power supply HDR-30-5 can be used. The special 5V connection cable is already mounted.



professional series

MiniSafe REG

Smart Home control unit  
DIN rail mounted device

EAN 4010312319017

308,80 €/pc.

# Blisterpacks and accessories



private series

## TF-BPD

### Tap-radio® blisterpack dimming

**Blisterpack dimming with tap-radio® wireless pushbutton TF-1FT and tap-radio® universal dimming actuator adapter TF100D-230V. Smart Home sensor and Smart Home actuator.**

**TF-1FT:** 1-way wireless flat pushbutton for single mounting 84x84x16mm or mounting into the E-design switching system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss.

Wireless pushbuttons with one rocker can send one evaluable signal. Press the bottom of the rocker near the mark.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55mm socket box for screw mounting.

**TF100D-230V:** Wireless universal dimming actuator adapter. 100x55x45mm (measurements without plug), pure white. With power MOSFET. 230V incandescent lamps and halogen lamps up to 300W, 230V LEDs up to 100W.

No inductive (wound) transformers. With children's rooms and snooze function. No minimum load. Standby loss only 0.7 watt.

Adapter for German fused safety sockets with increased shock protection.

Using easy tap-radio® technology, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons as well as motion sensors TF-BSB and TF-BHSB can be taught in.

During teach-in, the dimming actuator can be set to phase control to permit optimum dimming for various LED lamps.

TF-BPD

Blisterpack dimming

EAN 4010312317365

114,70 €/pc.



private series

## TF-BPD55

### Tap-radio® blisterpack dimming

**Blisterpack dimming with tap-radio® wireless pushbutton TF-4FT55 and tap-radio® universal dimming actuator adapter TF100D-230V. Smart Home sensor and Smart Home actuator.**

**TF-4FT55:** 4-way wireless pushbutton pure white glossy for single mounting 80x80x15mm or mounting in the 55mm switch system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss.

Wireless pushbuttons with one rocker can transmit two evaluable signals: press rocker up and press rocker down.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55mm socket box for screw mounting.

**TF100D-230V:** Wireless universal dimming actuator adapter. 100x55x45mm (measurements without plug), pure white. With power MOSFET. 230V incandescent lamps and halogen lamps up to 300W, 230V LEDs up to 100W.

No inductive (wound) transformers. With children's rooms and snooze function. No minimum load. Standby loss only 0.7 watt.

Adapter for German fused safety sockets with increased shock protection. Using easy tap-radio® technology, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons as well as motion sensors TF-BSB and TF-BHSB can be taught in.

During teach-in, the dimming actuator can be set to phase control to permit optimum dimming for various LED lamps.

TF-BPD55

Blisterpack dimming

EAN 4010312318225

120,10 €/pc.



private series

## TF-BPL Tap-radio® blisterpack switching

**Blisterpack switching with tap-radio® wireless pushbutton TF-1FT and tap-radio® light actuator adapter TF100L-230V. Smart Home sensor and Smart Home actuator.**

**TF-1FT:** 1-way wireless flat pushbutton for single mounting 84x84x16mm or mounting into the E-design switching system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss.

Wireless pushbuttons with one rocker can send one evaluable signal. Press the bottom of the rocker near the mark.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55mm socket box for screw mounting.

**TF100L-230V:** Wireless light actuator adapter 10A/250V AC. 100x55x45mm (measurements without plug), pure white. Impulse switch with NO contact. 230V incandescent lamps and halogen lamps 1000W, ESL and 230V LED lamps up to 200W. Standby loss only 0.8 watt.

Adapter for German fused safety sockets with increased shock protection.

Using easy tap-radio® technology, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons as well as motion sensors TF-BSB and TF-BHSB can be taught in.

TF-BPL	Blisterpack switching	EAN 4010312317358	99,70 €/pc.
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private series

## TF-BPL55 Tap-radio® blisterpack switching

**Blisterpack switching with tap-radio® wireless pushbutton TF-4FT55 and tap-radio® light actuator adapter TF100L-230V. Smart Home sensor and Smart Home actuator.**

**TF-4FT55:** 4-way wireless pushbutton pure white glossy for single mounting 80x80x15mm or mounting in the 55mm switch system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss.

Wireless pushbuttons with one rocker can transmit two evaluable signals: press rocker up and press rocker down.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55mm socket box for screw mounting.

**TF100L-230V:** Wireless light actuator adapter 10A/250V AC. 100x55x45mm (measurements without plug), pure white. Impulse switch with NO contact. 230V incandescent lamps and halogen lamps 1000W, ESL and 230V LED lamps up to 200W. Standby loss only 0.8 watt. Adapter for German fused safety sockets with increased shock protection.

Using easy tap-radio® technology, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons as well as motion sensors TF-BSB and TF-BHSB can be taught in.

TF-BPL55	Blisterpack switching	EAN 4010312318218	105,10 €/pc.
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## TF-BP61L

### Tap-radio® blisterpack switching

**Blisterpack switching with tap-radio® wireless pushbutton TF-1FT and tap-radio® light actuator TF61L-230V. Smart Home sensor and Smart Home actuator.**

**TF-1FT:** 1-way wireless flat pushbutton for single mounting 84x84x16mm or mounting into the E-design switching system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss.

Wireless pushbuttons with one rocker can send one evaluable signal. Press the bottom of the rocker near the mark.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55mm socket box for screw mounting.

**TF61L-230V:** Wireless light actuator 10A/250V AC, 45x45x18mm. Impulse switch with NO contact, not potential free. 230V incandescent lamps and halogen lamps 1000W, ESL and 230V LED lamps up to 200W. Standby loss only 0.8 watt.

Using easy tap-radio® technology, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons as well as motion sensors TF-BSB and TF-BHSB can be taught in.



private series

TF-BP61L

Blisterpack switching

EAN 4010312318386

81,60 €/pc.



## TF-BP61L55

### Tap-radio® blisterpack switching

**Blisterpack switching with tap-radio® wireless pushbutton TF-4FT55 and tap-radio® light actuator TF61L-230V. Smart Home sensor and Smart Home actuator.**

**TF-4FT55:** 4-way wireless pushbutton pure white glossy for single mounting 80x80x15mm or mounting in the 55mm switch system. Generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss.

Wireless pushbuttons with one rocker can transmit two evaluable signals: press rocker up and press rocker down.

The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive foil. Use the sleeves in the 55mm socket box for screw mounting.

**TF61L-230V:** Wireless light actuator 10A/250V AC, 45x45x18mm. Impulse switch with NO contact, not potential free. 230V incandescent lamps and halogen lamps 1000W, ESL and 230V LED lamps up to 200W. Standby loss only 0.8 watt.

Using easy tap-radio® technology, up to 24 wireless universal pushbuttons, wireless direction pushbuttons, wireless central control pushbuttons as well as motion sensors TF-BSB and TF-BHSB can be taught in.



private series

TF-BP61L55

Blisterpack switching

EAN 4010312318393

87,00 €/pc.

**IP-Cam****IP camera with motion detector****Digitus® Optiview PRO, Plug & View IP camera DN-16046.**

Day and night camera for indoors. 1 megapixel video resolution HD 720.

Transmit to iOS or Android devices.

Settable message on motion detection.

Supports micro SD cards up to 32GB.

Easy to install: set up network connection, install Digitus app or register camera on [www.plug-view.com](http://www.plug-view.com).

Measurements LxWxH: 60x64x130 mm. Includes LAN network cable, mounting kit and 230V power adapter. Pure white glossy.



private series

<b>IP-Cam</b>	IP camera with motion detector	EAN 4010312319031	<b>165,00 €/pc.</b>
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**TF100P-230V Tap-radio® repeater adapter****Wireless repeater adapter level 1. 100x55x45 mm (measurements without plug), pure white. Standby loss only 0.8 watt. Smart Home repeater.**

Adapter for German fused safety sockets with increased shock protection.

A repeater is only required if the building structure permits undisturbed reception or the distance between the sensor and actuator is too large. Only telegrams from sensors and actuators are received and sent with full transmit power, but not the telegrams of other repeaters.



private series

<b>TF100P-230V</b>	Wireless repeater adapter	EAN 4010312317136	<b>69,80 €/pc.</b>
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**TF61P-230V Tap-radio® repeater****1- and 2-level wireless repeater 45x45x18 mm. Only 0.8 watt standby loss. Smart Home repeater.**

Supply voltage 230V.

This repeater is only needed if the building conditions prevent undisturbed reception or the distance between the wireless pushbutton and receiver is too great.

The 1-level mode is activated ex works. Only wireless signals from sensors are received, tested and retransmitted at full transmit power. Wireless signals from other repeaters are ignored to reduce the data volume.

**From production week 26/18:** Switch over to 2-level mode using the rotary switch. Sensor wireless signals are then processed in addition to the wireless signals of another 1-level repeater. A wireless signal can then receive and amplify a maximum of two times. The LED shows incoming wireless signals by briefly flashing.

Wireless repeaters need not be taught-in. They receive and amplify signals from all wireless sensors within their reception area.



professional series

<b>TF61P-230V</b>	Wireless repeater	EAN 4010312318157	<b>49,90 €/pc.</b>
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# Technical data – Tap-radio® switching and dimming actuators

## Activation telegrams from GFVS software

### Contacts

Contact material/contact gap  
 Spacing of control connections/contact  
 Test voltage control connections/contact  
 Rated switching capacity each contact  
 Incandescent lamp and halogen lamp load <sup>1)</sup>  
 230V, I on ≤ 35A/10ms Electronic transformers  
 Fluorescent lamp load with KVG\* in lead-lag circuit or non compensated  
 Fluorescent lamp load with KVG\* shunt-compensated or with EVG\*  
 Compact fluorescent lamps with EVG\* and energy saving lamps  
 Inductive load cos φ = 0.6/230V AC, inrush current ≤ 35 A  
 230V LED lamps  
 Service life at rated load, cos φ = 1  
 Service life at rated load, cos φ = 0,6  
 Max. operating cycles  
 Maximum conductor cross-section  
 Two conductors of same cross-section  
 Screw head  
 Type of enclosure/terminals

	TF61D, TF100D, TF-TA65D, TF-TA55D	TF61L, TF100L, TF-TA65L, TF-TA55L, TF61R	TF61J, TF-TA65J, TF-TA55J
Power MOSFET	–	AgSnO <sub>2</sub> /0.5 mm	AgSnO <sub>2</sub> /0.5 mm
–	–	3 mm	3 mm
–	–	2000 V	2000 V
–	–	10 A/250 V AC	4A/250 V AC
up to 300 W <sup>2) 3)</sup>	–	1000 W	500 W
–	–	500 VA	–
–	–	500 VA	–
–	–	up to 200 W	–
–	–	500 W	500 W
up to 100 W <sup>2) 5)</sup>	–	up to 200 W <sup>3)</sup>	–
–	–	> 10 <sup>5</sup>	> 10 <sup>5</sup>
–	–	> 4 x 10 <sup>4</sup>	> 4 x 10 <sup>4</sup>
–	–	10 <sup>3</sup> /h	10 <sup>3</sup> /h
4 mm <sup>2</sup>	–	4 mm <sup>2</sup>	4 mm <sup>2</sup>
1.5 mm <sup>2</sup>	–	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>
slotted/crosshead	–	slotted/crosshead	slotted/crosshead
IP30/IP20	–	IP30/IP20	IP30/IP20
<b>Electronics</b>			
Time on	100 %	100 %	100 %
Max./min. temperature at mounting location	+50°C/-20°C <sup>4)</sup>	+50°C/-20°C	+50°C/-20°C
Standby loss (active power)	0.7 W	0.8 W	0.8 W
Local control current at 230V control input, only on Series 61	0.4 mA	0.4 mA	0.4 mA
Max. parallel capacitance (approx. length) of local control lead at 230V AC	3 nF (10 m)	3 nF (10 m)	3 nF (10 m)

<sup>1)</sup> Applies to lamps of max. 150 W. <sup>2)</sup> The switching capacity depends on the ventilation conditions. <sup>3)</sup> In the case of capacitive (electronic) transformers, the load calculation must take into account 5% loss in addition to the lamp load. <sup>4)</sup> Affects the maximum switching power. <sup>5)</sup> Due to different lamp electronics it may be restricted Dimming areas, on and off problems and to a limitation of the maximum Number (10 pieces) of the lamps; especially if the connected load is very low (eg with 5W LEDs).

\*EVG = electronic ballast units; KVG = conventional ballast units

**Eltako Wireless is based on the EnOcean wireless standard for 868MHz, frequency 868.3MHz, data rate 125kbps, modulation mode ASK, max. transmit power 7dBm (<10mW).**

Norms: EN 61000-6-3, EN 61000-6-1 and EN 60 669

## Activation telegrams from the GFVS software

### TF61D, TF100D, TF-TA65D, TF-TA55D

#### Direct transfer of dimming value from 0-100%, FUNC=38, Command 2 (like EEP A5-38-08).

ORG = 0x07  
 Data\_byte3 = 0x02  
 Data\_byte2 = dimming value in % from 0-100 dez.  
 Data\_byte1 = dimming speed: 0x01 = very fast-0xFF = very slow  
 Data\_byte0 = DBO\_Bit3 = LRN button  
 (0 = teach-in telegram, 1 = data telegram)  
 DBO\_Bit0 = 1: Dimmer ON, 0: Dimmer OFF.  
 DBO\_Bit2 = 1: Block dimming value, 0: Dimming value not blocked  
 DBO\_Bit5 = 1: Teach mode activation, 3x within 2s = delete GFVS-ID  
 Teach-in telegram: 0xE0400D80  
 Unlock teach mode: 0x00000028  
 Confirmation telegram request: 0x00000008

### TF61J, TF-TA65J, TF-TA55J

#### Direct drive command with specification of runtime in s. FUNC=3F, Typ=7F (universal).

ORG = 0x07  
 Data\_byte3 = Runtime in 100ms MSB  
 Data\_byte2 = Runtime in 100ms LSB, or runtime in seconds  
 1-255 dec  
 Data\_byte1 = command: 0x00 = Stopp, 0x01 = Up, 0x02 = Down  
 Data\_byte0 = DBO\_Bit3 = LRN button  
 (0 = teach-in telegram, 1 = data telegram)

DBO\_Bit2 = Lock/unlock the actuator for pushbutton  
 (0 = unlock, 1 = lock)  
 DBO\_Bit1 = change between runtime in seconds or in 100ms.  
 (0 = runtime only in DB2 in seconds)  
 (1 = runtime in DB3 (MSB) + DB2 (LSB) in 100ms.)  
 DBO\_Bit5 = 1: Teach mode activation, 3x within 2s = delete GFVS-ID  
 Teach-in telegram: 0xFFFF80D80  
 Unlock teach mode: 0x00000028

### TF61L, TF100L, TF-TA65L, TF-TA55L

#### Direct switching command, FUNC=38, Command 1, (like EEP A5-38-08).

There is the possibility to block the switching state with absolut priority so that it cannot be changed by other taught-in push-buttons.

ORG = 0x07  
 Data\_byte3 = 0x01  
 Data\_byte2 = not used  
 Data\_byte1 = not used  
 Data\_byte0 = DBO\_Bit3 = LRN button  
 (0 = teach-in telegram, 1 = data telegram)  
 DBO\_Bit2 = 1: block switching state, 0: do not block switching state  
 DBO\_Bit0 = 1: switching output ON, 0: switching output OFF  
 DBO\_Bit5 = 1: Teach mode activation, 3x within 2s = delete GFVS-ID  
 Teach-in telegram: 0xE0400D80  
 Unlock teach mode: 0x00000028  
 Confirmation telegram request: 0x00000008

## Sensor telegrams

### TF-1FT

ORG = 0x05  
Data\_byte3 = 0x10

### TF-4FT

ORG = 0x05  
Data\_byte3 = 0x70/0x50 with rocker  
Data\_byte3 = 0x70/0x50/0x30/0x10 with double rocker

### TF-AHDSB

TF-Modus: EEP: A5-38-08  
Teach-in telegram: 0xE0400D80  
Data telegram: OFF = 0x01000008  
ON = 0x01000009  
FAH mode: EEP: A5-06-01  
Teach-in telegram: 0x18080D80

### TF-BSB, TF-BHSB

EEP: A5-07-01  
Data\_byte3 = -  
Data\_byte2 = -  
Data\_byte1 = 0xC8 = semi-automatic motion detection  
0xFF = fully automatic motion detection  
Data\_byte0 = 0x08  
Teach-in telegram: 0x1C080D80

### TF-DTB

EEP: A5-38-08  
Teach-in telegram: 0xE0400D80  
Data\_byte3 = 0x02  
Data\_byte2 = dimming value in % from 0 to 100 dec.  
Data\_byte1 = 0x01  
Data\_byte0\_Bit0: 1 = On, 0 = off

### TF-FGB

EEP: A5-14-09  
Data\_byte0 = 0x08 = window closed  
0x0E = window open  
0x0A = window tilted  
Data\_byte3 = battery voltage: 0..250, 0..5V  
Teach-in telegram: 0x50480D80

### TF-FKB

EEP: D5-00-01P: D5-00-01)FTK+FTKB (EEP: D5-00-01)  
ORG = 0x06  
Data\_byte3 = contact closed -> 0x09  
contact open -> 0x08  
Data\_byte2 = -  
Data\_byte1 = -  
Data\_byte0 = -  
Teach-in telegram DB3..DB0: 0x00, 0x00, 0x00, 0x00

### TF-FKE

ORG = 0x05  
Data\_byte3 = 0xF0 (window closed)  
0xE0 (window open)

### TF-FKS

EEP: A5-20-04  
Data\_byte3 = Valve position 0-100%  
Data\_byte2 = (if data\_byte0 = 08) Flow temperature  
20-80°C 0x00-0xFF  
Data\_byte2 = (if data\_byte0 = 0A) Setpoint  
10-30°C 0x00-0xFF  
Data\_byte2 = (if data\_byte0 = 09)  
Error code 0x12 = battery empty  
Data\_byte1 = measured temp. 10-30°C 0x00-0xFF  
Teach-in telegram: 0x80204580

### TF-FTSB

EEP: A5-04-02  
Data\_byte3 = -  
Data\_byte2 = relative humidity 0..100% (corresp. to 0..250)  
1 Bit = 0,4%  
Data\_byte1 = Temperature -20..+60°C (corresp. to 0..250)  
1 Bit = 0,32°C  
Data\_byte0 = 0x0F  
Teach-in telegram: 0x10100D87

### TF-RWB, TF-HMB

EEP: A5-30-03  
Data\_byte3 = 0x00  
Data\_byte2 = Temperature 0..40°C, linear 255..0  
Data\_byte1 = 0x0F = alarm, 0x1F = no alarm  
Data-Byte0 = 0x08  
Teach-in telegram: 0xC0182D80

### TF-SUD

PTM200 telegrams ORG = 0x05  
Data\_byte3 = 0x70 = switch on, 0x50 = switch off  
Clock telegram according to EEP A5-13-04  
Teach-in telegram: 0x4C200D80  
Tap-radio telegram according to EEP A5-38-08  
Teach-in telegram: 0xE0400D80

### TF-TRHB, TF-TRSB

Operating mode TF61: EEP: A5-38-08  
Teach-in telegram: 0xE0400D80  
Data telegram: OFF = 0x01000008, ON = 0x01000009  
Hysteresis: 1°  
Operating mode FHK: EEP: A5-10-06  
Teach-in telegram: 0x40300D87  
Data\_byte2 = reference temperature 12°C to 28°C, frost symbol  
= 8°C  
Data\_byte1 = actual temperature 0 to 40°C

### TF-TTB

EEP: A5-07-01  
Data\_byte3 = Operating voltage (20mV/value)  
Data\_byte2 = -  
Data\_byte1 = 0xF0  
Data\_byte0 = 0x0F  
Presence teach-in telegram: ORG7: 0x1C080D80  
Presence data telegram: ORG7: 0x9500F00F  
Pushbutton telegram: ORG5: 0x70 by pressing and 0x00 at release.

### TF-UTH

EEP: A5-10-06  
Data\_byte3 = night reduction 0-5°K in 1° steps  
Data\_byte2 = reference temperature 0..40°C, linear 0x00 - 0xFF  
Adjustable range: 8..40°C  
Data\_byte1 = actual temperature 0..40°C, linear 0xFF - 0x00  
Data\_byte0 = DBO\_Bit3 = LRN button  
Teach-in telegram : 0x40300D87  
EEP: A5-10-12  
Data\_byte3 = reference humidity 0..100%  
Adjustable range: 10..90%  
Data\_byte2 = actual humidity 0..100% (corresp. to 0..250)  
Data\_byte1 = actual temperature 0..40°C (corresp. to 0..250)  
Data\_byte0 = DBO\_Bit3 = LRN button  
Teach-in telegram: 0x40900D80

### TF-WTB

ORG = 0x05  
Data\_byte3 = 0x70



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