

## RADIO RECEIVER FOR THE CONTROL OF FANS

**Product code:**

**TVVTL868A01**

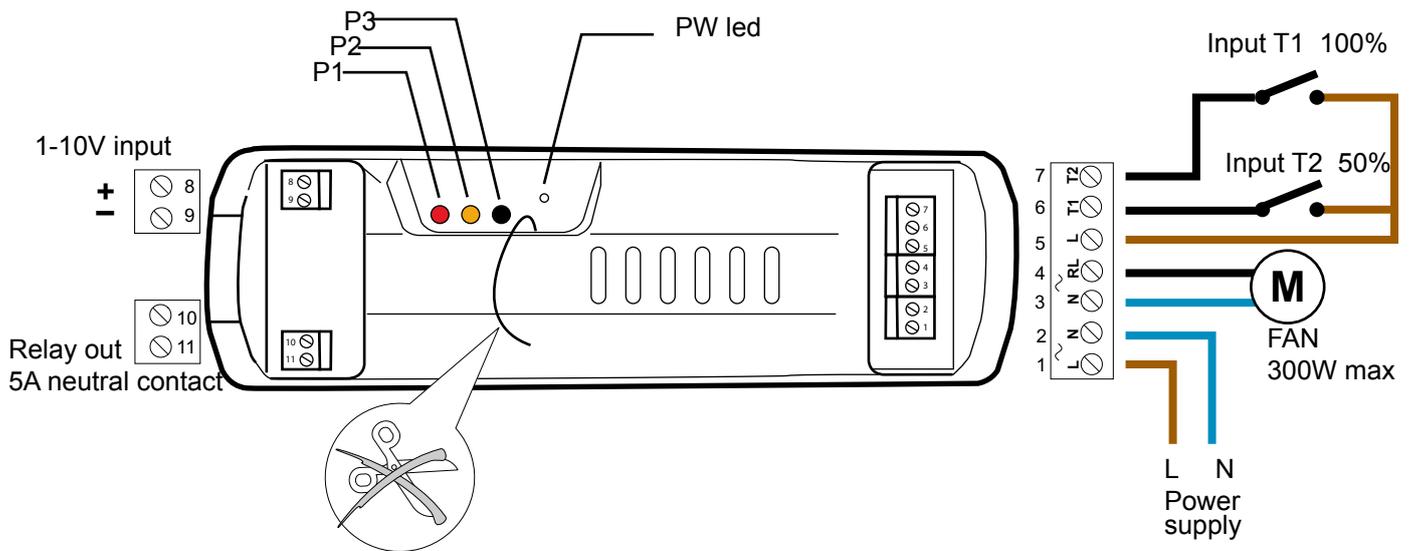
Receiver for the control of fans up to 250W.

**TVVTL868A02**

Receiver for the control of fans up to 400W.

Electronic card for the control of fans for residential use. Controls through manual switch or via radio. 1-10V analogical control input. Input for minimum speed level setting. Power supply 230Vac.

### 1- CONNECTIONS



### 2- External inputs

**Warning:** If there are more than one active input or command from the transmitter, the speed of the fan will always be the highest value selected.

**T1 Input - Input for forced ventilation mode 100%**

If this input is active, the fan will be forced to the maximum speed.

It is not possible to operate through the transmitter or through the 1-10V input.

**T2 Input - Input for ventilation mode 50%**

If this input is active, the fan will work at 50% of maximum speed.

It is not possible to decrease the speed under 50% of maximum speed or to switch off the fan.

**1-10V Input - Analogical input 1-10V**

The 1V value corresponds to off value of the fan, 10V value corresponds to the maximum speed of the fan. It is not possible to decrease the speed of the fan under the value of the 1-10 input or switch off the fan.

### 3- Outputs

**Fan output:**

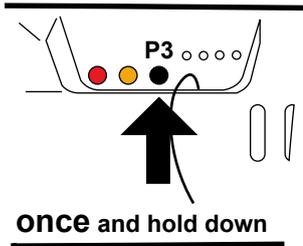
Output 230Vac for motors up to 300W with softstart function. At each switch on the motor works at 100% of speed for 5 seconds, before it goes to the selected speed.

**Relay output:**

The output is active when the fan is working. The relay output is a neutral contact type, 230Vac, 5A max.

			Model number	
			T438.02	27/04/11

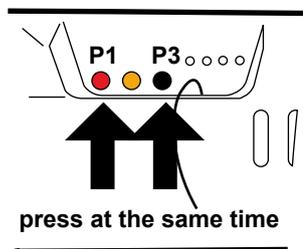
## 4- To program the minimum speed



This function allows to set the minimum speed that can be reached by the load.

- 1- Press once and hold down the push-button **P3** for 5 seconds. After 5 seconds the buzzer will make a bip. Release the push button.
- 2- Regulate the minimum speed to the level desired:
  - using CH5 or CH6 push-button of the 7-channel transmitter
  - using CH3 push-button of the 4-channel transmitter
  - using CH1 push-button of the 1-channel transmitter
- 3- Press once and hold down the push-button **P3**. The buzzer will make a long bip to confirm the new value.

### 4.1- Activation-deactivation memory of the last value of speed before the turning off



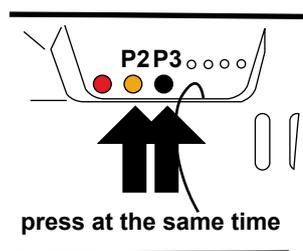
With memory function activated, controlling the load in ON/OFF mode, at the time of turning on, the fan goes back to the values it had before turning off.

The memory function is deactivated by using the 7-channel transmitter.

With memory function deactivated, the load turns on at the maximum speed.

- 1- Activation-deactivation memory function: press at the same time the push buttons **P1+P3**.
  - the buzzer will make 2 bips if the function is activated;
  - the buzzer will make 1 long bip if the function is deactivated.

### 4.2- Activation-deactivation memory of the last value of speed modified by a transmitter



With memory function activated, when the T1, T2 and 1-10V input are disabled, the speed of the fan goes back to the values it had before the activation of inputs.

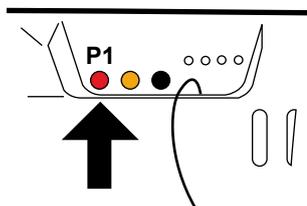
With memory function deactivated, when the T1, T2 and 1-10V input are disabled, the fan turns off.

- 1- Activation-deactivation memory function: press at the same time the push buttons **P2+P3**.
  - the buzzer will make 2 bips if the function is activated;
  - the buzzer will make 1 long bip if the function is deactivated.

## 5- TRANSMITTER MEMORIZATION

**ATTENTION:** The first transmitter can only be memorized using the receiver.

### 5.1- To memorise 7-channel transmitters

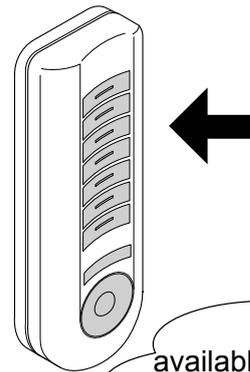


**ONCE** and hold down

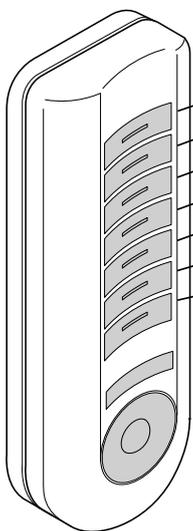
1- Press the push button **P1** **once and hold** it down, the buzzer will make a beep and then sound continuously.

2- During the sound press one push button of the 7-channel transmitter which has to be memorised, the memorization is indicated by the intermittently sound of the buzzer.

All the push-buttons of the transmitter are automatically memorized.

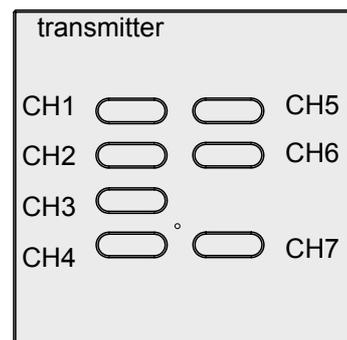


available only for 7 or 42 channels transmitter



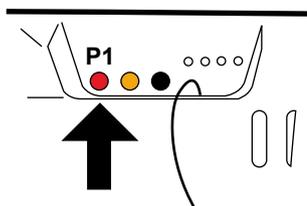
CH1 Speed at 100%  
 CH2 Speed at 66%  
 CH3 Speed at 33%  
 CH4 Speed at min.  
 CH5 Up +  
 CH6 Down -  
 CH7 OFF: turn off

Speed at 100%  
 Speed at 66%  
 Speed at 33%  
 Speed at min.



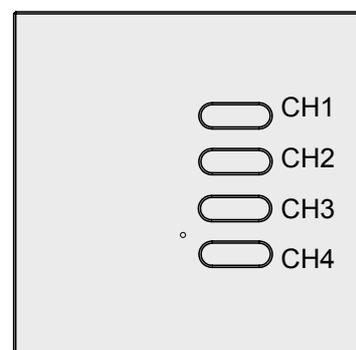
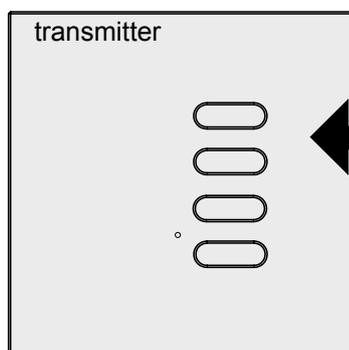
CH5 Up +  
 CH6 Down -  
 CH7 OFF: turn off

### 5.2- To memorise 4-channel transmitters



**twice** and hold down

1- Press the push button **P1** **twice and hold** it down, the buzzer will make a beep each time and then sound continuously.

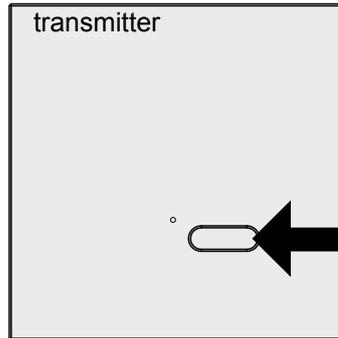
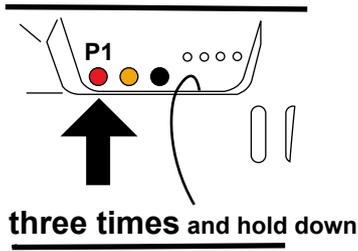


CH1 Speed at 100%  
 CH2 Speed at 50%  
 CH3 Speed at min.  
 CH4 Turn off

2- During the sound press one push button of the 4-channel transmitter which has to be memorised, the memorization is indicated by the intermittently sound of the buzzer. All the push-buttons of the transmitter are automatically memorized.

## 5.2- To memorise one transmitter push-button with on/off/dimmer function

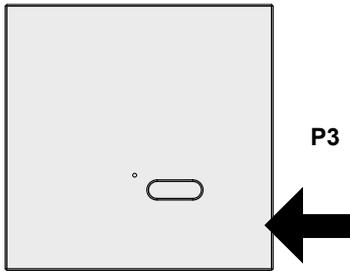
with short impulses (<800 ms.) it turns the load on and off, by holding it pressed, it increases or decreases the speed.



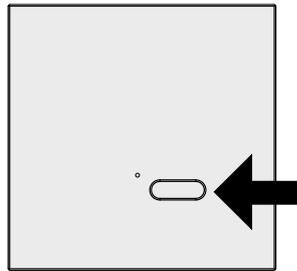
1- Press the push button **P1** **three times and hold** it down, the buzzer will make a beep each time and then sound continuously.

2- During the sound press the push button which has to be memorised, the memorization is indicated by the intermittently sound of the buzzer.

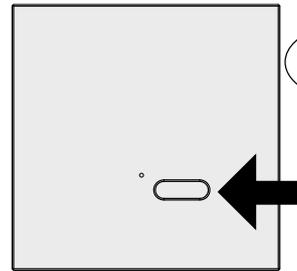
## 6- To copy a function of transmitter push-button to a new transmitter



1- Press the button **P3** located inside the **already memorized transmitter**. Led 1 turns on. (the push button P3 is located inside the transmitter, see transmitter manual)



2- Within 5 seconds press a push button of the **already memorized transmitter** which has to be copied. Led 1 turns off for 1 sec, and then it turns on for 5 seconds.

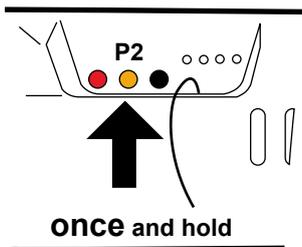


3- During the sound press the push-button of the **new transmitter** which has to be memorized; the memorization is indicated by the intermittent sound of the buzzer.

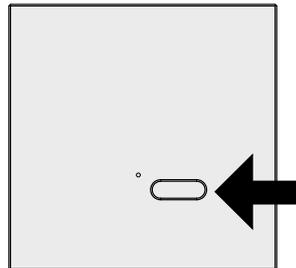
available with all type of transmitters

The new transmitter will have the same functions of the transmitter used for its memorization.

## 7 - To delete a transmitter

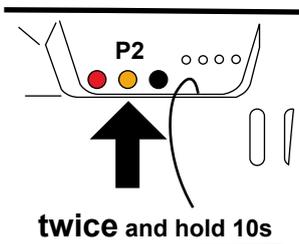


1- Press the push button **P2 once and hold** it down, the buzzer will make a beep each time and then sound slowly and intermittently.



2- During the sound press the push-button which has to be deleted; the deletion is indicated by the continuous sound of the buzzer.

### 7.1 - To delete all transmitter



- 1- Press the push button **P2 twice and hold** it down, the buzzer will make a beep each time and then sound quickly and intermittently.
- 2- Hold down the push button for 10 sec., after this 10 sec. the buzzer will sound continuously by indicating that the whole memory has been cancelled.

## Technical specifications

- Power supply	230V 50/60Hz +/-10%	- Internal thermic protection with auto-reset.
- Minimum adjustable load	25 W	- Electronic control of the load status.
- Maximum adjustable load	250W (TVVTL868A01) 400W (TVVTL868A02)	- Possibility to memorise up to 16 standard transmitters.
- Frequency radio part	868.3 MHz	In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice.
- Modulation	FSK	
- Consumption on standby	0.8W	

## - Warning



### Attention

**The subject appliance must be installed only by qualified technical personnel in compliance with the standards. All connections must be rated for a single-phase power supply of 230V. For the disconnection from the power line, use an all-pole switch with contact with an opening of at least 3,5mm. Only suitable materials for the connections must be used to guarantee insulation that complies with current standards on the subject of electrical safety. All the necessary safety devices are to be seen to separately.**

**Ground connection must be provided separately.**

The device's signal reception could be disturbed by several factors such as:

- the presence of electrical frequency noise being transmitted by other appliances working in the same environment and on the same frequency.
- appliances installed in metal containers or shielded from metal parts; only use containers made of plastic.
- The programmer is in conformity with the RAEE and RoHS directive.