

RADIO RECEIVER FOR THE CONTROL OF RLC LOAD

Product code:

TVDMM868A09SS

Receiver for the control of load up to 250W.

Dimmer for the manual or radio control of resistive, inductive and capacitive loads.

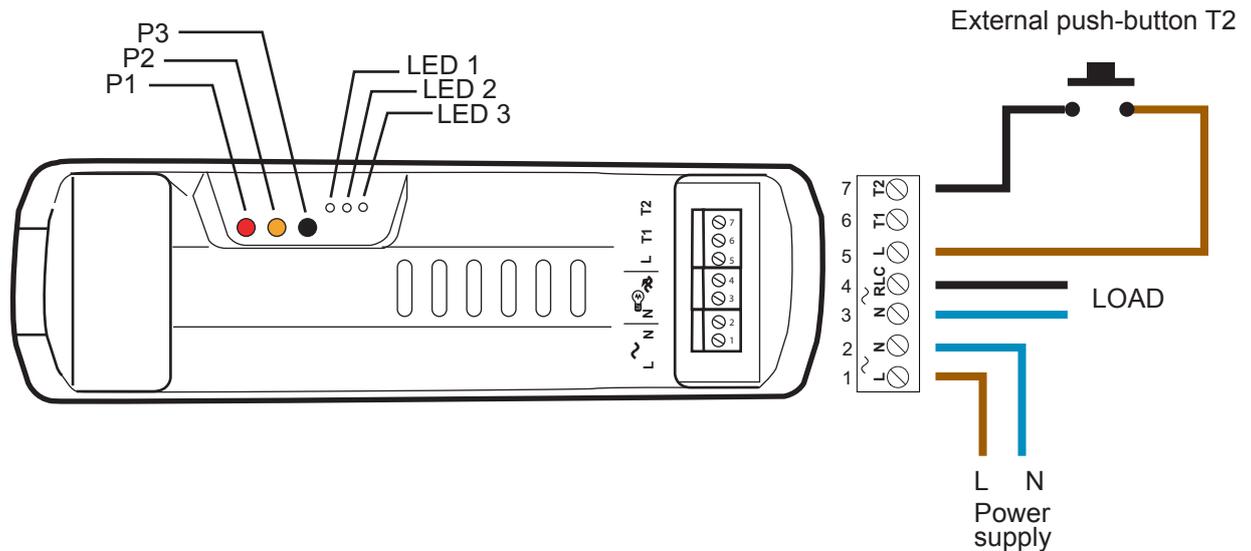
Minimum power 25W

Maximum power 250W

	Resistive load Halogen and incandescent lamps 230V: max 250W
	Inductive load: max 250VA
	Capacitive load: electronic transformers: max 250VA

Not for fluorescent lamps.

1- CONNECTIONS



1.1- Functioning with manual push button T2

T2 input

Arrange one manual push button for a wire-control with the following functions:

Short impulse (< 800mS) = ON/OFF

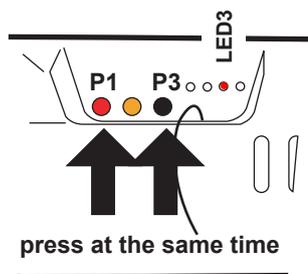
Long impulse (> 800mS) = adjusting upgrade or downgrade.

Warning

The common wire of the push button is wired to the line of 230V power supply.

Code Number:	Series	Model number	
TVDMM868A09SS	TVLink RS868	T493.02	31/07/12

2- Activation-deactivation memory of last value of light (light memory)



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

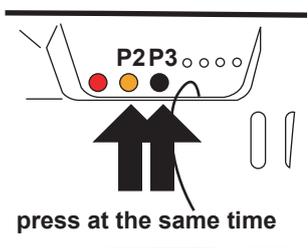
The memory function is deactivated by using the 7-channel transmitter.

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

1- Activation-deactivation memory function: press at the same time the push buttons **P1+P3**.

- LED 3 turn on if the function will be activated;
- LED 3 turn off if the function will be deactivated.

2.1- To program the minimum level of brightness



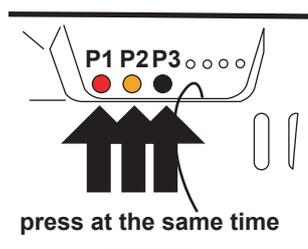
This function allows to set the minimum level of brightness that can be reached by the dimmable load.

1- Regulate the minimum brightness to the level desired

2- Press at the same time push-buttons P2 + P3 for 10 seconds. After 10 seconds the buzzer will sound quickly for 16 times.

3- To reactivate the minimum level of brightness to the default level, press at the same time P2 + P3 for 10 seconds. After 10 seconds the buzzer will sound slowly for 3 times.

2.2- Special setting to control LED loads.



This setting is used to improve the control of LED loads when there is a flicker of light.

For activation-deactivation of "LED" function: press at the same time for 10 seconds the push buttons P1+P2+P3 of the receiver.

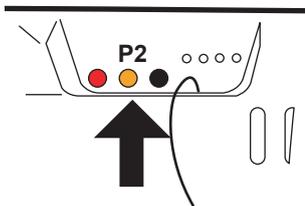
- the buzzer will sound 16 times if the function will be activated;
- the buzzer will sound 3 times if the function will be deactivated.

N.B. if there is a change of load it is necessary to deactivate the "LED" function.

3- TRANSMITTER MEMORISATION

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

3.1- To memorise 7-channel transmitters

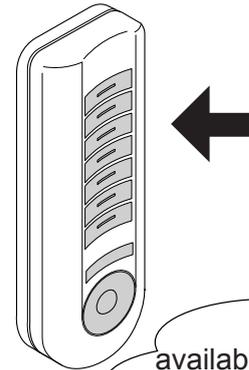


ONCE and hold down

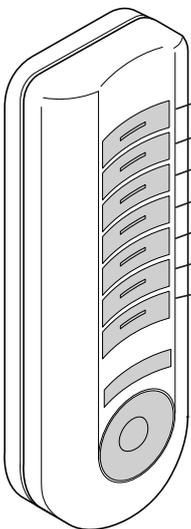
1- Press the push button **P2** **once and hold** it down, the buzzer will make a beep and then sound continuously.

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

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

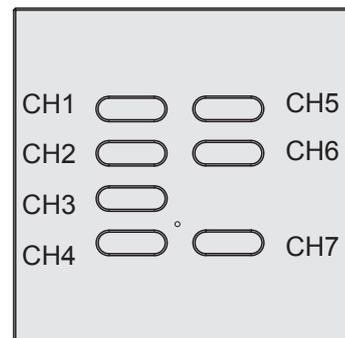


available only for 7 or 42 channels transmitter



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

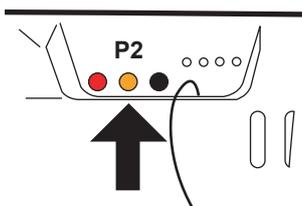
- Luminosity 100%
- Luminosity 66%
- Luminosity 33%
- Luminosity at min.



- CH5 Up +
- CH6 Down -
- CH7 OFF: turn off

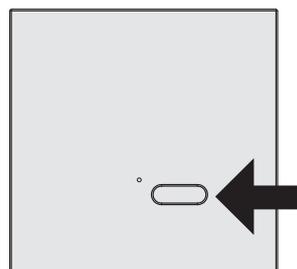
3.2 - Memorisation of one transmitter push-button with On/Off/Dim function

With short impulses (<800 ms.) turn the light on and off, by holding it pressed increase or decrease the intensity.



2 times and hold down

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

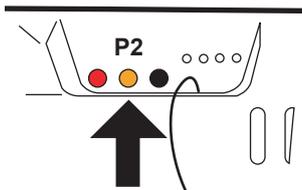


2- During the sound press the push-button which has to be memorised; the memorisation is indicated by the intermittently sound of the buzzer.

Function available for all type of transmitters

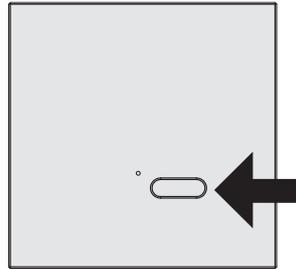
3.3 - Memorisation of one transmitter push-button with ON function

The push-button memorised with On function turns on the load.



3 times and hold down

1- Press the push button **P2 three times and hold** it down, the buzzer will make a beep each time and then sound continuously.

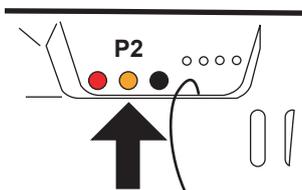


2- During the sound press the push-button which has to be memorised; the memorisation is indicated by the intermittently sound of the buzzer.

Function available for all type of transmitters

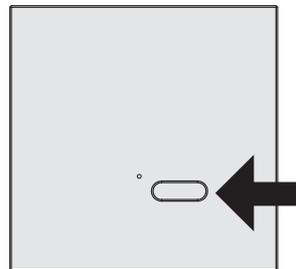
3.4 - Memorisation of one transmitter push-button with OFF function

The push-button memorised with Off function turns off the light.



4 times and hold down

1- Press the push button **P2 four times and hold** it down, the buzzer will make a beep each time and then sound continuously.

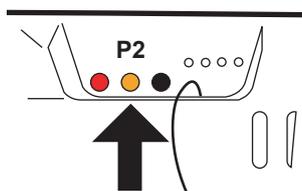


2- During the sound press the push-button which has to be memorised; the memorisation is indicated by the intermittently sound of the buzzer.

Function available for all type of transmitters

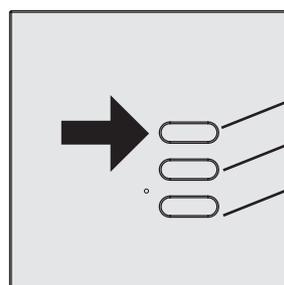
3.5- To memorise 3 channel transmitters

The push buttons of the memorised transmitter will have the following functions: CH5 increases the level of brightness, CH6 decreases the level of brightness, CH7 turns ON or OFF the light.



5 times and hold down

1- Press the push button **P2 five times and hold** it down, the buzzer will make a beep each time and then sound continuously.



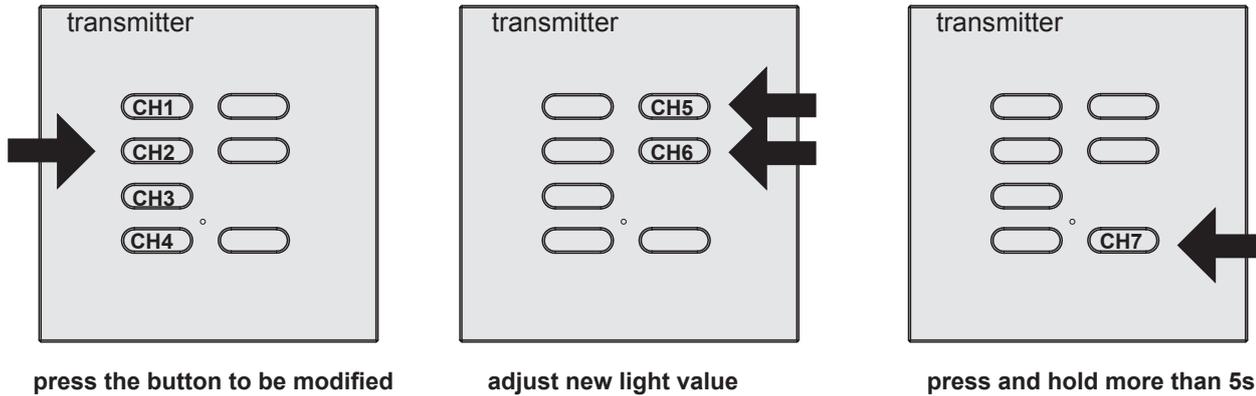
2- During the sound press the push-button which has to be memorised; the memorisation is indicated by the intermittently sound of the buzzer.

CH5: Dim +
CH6: Dim -
CH7: On/Off

4- To change the level of light intensity of the 4 push button of the 7-channel transmitter from transmitter

Case 1:

one 7-channel transmitter memorised on one dimmer receiver



1- Press the push button to be modified

2- Adjust the new value with the two push buttons CH5 CH6;

2- Hold down the CH7 push button for 5 sec., after 5 sec. the LED 1 turns on for 5 sec. and the load will turn on at the new value.

Case 2: (more than one receiver memorised to the same 7-channel transmitter)

In the case that several receivers have the same 7-channel transmitter memorised, and each receiver must have a different value of light intensity, proceed with the programming of the identification number of the receiver. Once the identification number is programmed it is possible to select the desired receiver by means of the push buttons.

To set an identification number of a receiver:

The identification number associated to the dimmer is displayed by means of the LEDs 2 and 3: each flash of LED 2 represents ones and each flash of LED 3 represents tens.

1. Press the push button P1 and P2 of the receiver at the same time.

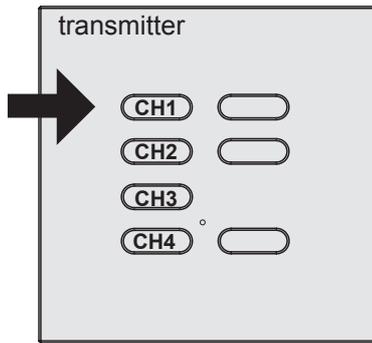
2. After approximately one second LED 2 and LED 3 start flashing in order to indicate the identification number associated to the receiver. After this, LED 1 turns on.

For example: if the associated number is 13, LED 2 flashes 3 times and LED 3 flashes 1 time.

3. Press the push button P3 until you reach the number to be associated to the dimmer. A maximum of 20 identification numbers are allowed. Each time the push button P3 is pressed, LED 2 turns off. After having reached the twentieth number LED 1 flashes. In case of error, reset the counting by pressing P2.

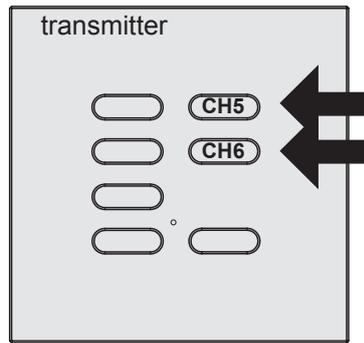
4. Memorise the set identification number and exit the procedure by pressing P1. LED 1 will turn off.

This operation has to be done in every receiver that has the 7 channel transmitter in common.



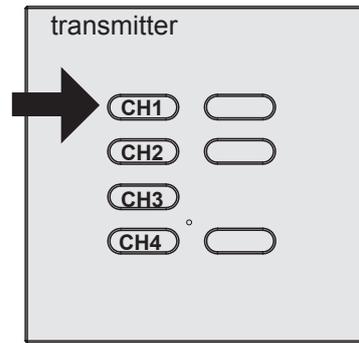
press and hold down for 5s

1- Press and hold one of the first 4 channels of the transmitter concerned for 5 seconds down. The light turns-off and turns-on.



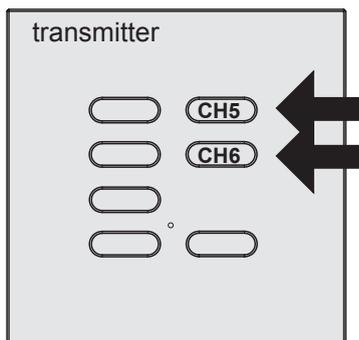
select the receiver

2- Press the push button CH5 or CH6 of the transmitter in order to select a dimmer. The selected dimmer will be the one with the turned-off light; If the light intensity of the selected dimmer is above 50%, the light will turn off, otherwise if the light is lower than 50% the light raises to 100% brightness and turns off. Each dimmer is set an identification number which corresponds to the number of pressings of the push button CH5 (see "set the identification number of a receiver").



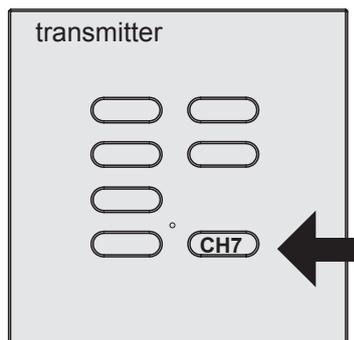
press the push button to be modified

3- Press the push button of the scene which has to be modified. The dimmer turns on at the maximum value, while the others remain turned-on and blocked.



adjust new light value

4- Set with the push buttons Ch5 and Ch6 the new light value, or pushing push button to be modify (ex. CH1) it is possible to select the ON, OFF and Unaffected (will flash on then off) value.



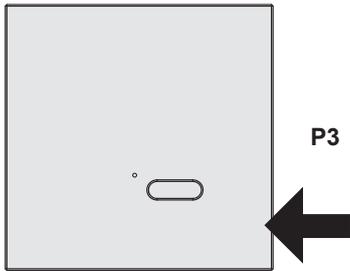
press the push button

5- Press the push button CH7 OFF to exit and memorise the new scene. The memorisation is signalled by the turning-off and turning-on of the load at the memorised value. With this operation all the other dimmers will be unblocked and will return to the state in point 2.

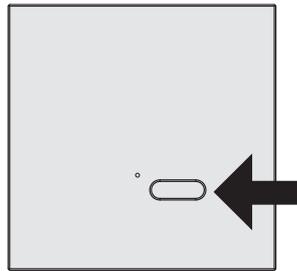
In order to modify the scene of another dimmer/ another scene, repeat the points 2-6.

6. Press the push button CH7 OFF to exit the procedure; all lights will turn off.

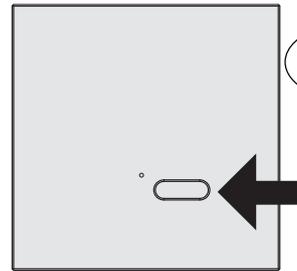
5- To copy a function of transmitter push-button to a new transmitter



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** whose function has to be copied. LED 1 turns off for 1 sec, and then it turns on for 5 seconds.

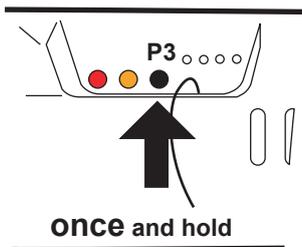


3- During the sound press the push-button of the **new transmitter** which has to be memorised; the memorization is indicated by the intermittently sound of the buzzer.

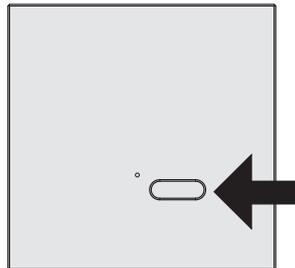
available with all type of transmitters

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

6 - To delete a transmitter

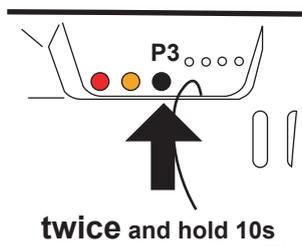


1- Press the push button **P3 once and hold** it down, the buzzer will make a beep each time and then sound slowly and intermittently.



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

6.1 - To delete all transmitter



- 1- Press the push button **P3 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	- Possibility to memorise up to 16 standard transmitters.
- Frequency radio part	868.3 MHz	
- Modulation	FSK	
- Consumption on standby	0.8W	
-Operating temperature range	-20° - +50°C	In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice.

- 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 safety devices necessary for the installation 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.