TWO CHANNEL RF REMOTE CONTROL SET

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Let's get started!

Velleman nv hereby certifies that the device VM130 meets
the essential requirements and all other relevant stipulations of
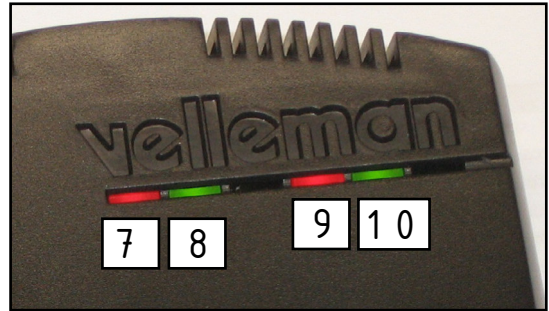directive ETS 300-220

For the complete conformity declaration
check out :
http://www.velleman.be/downloads/doc/ce_vm130.pdf
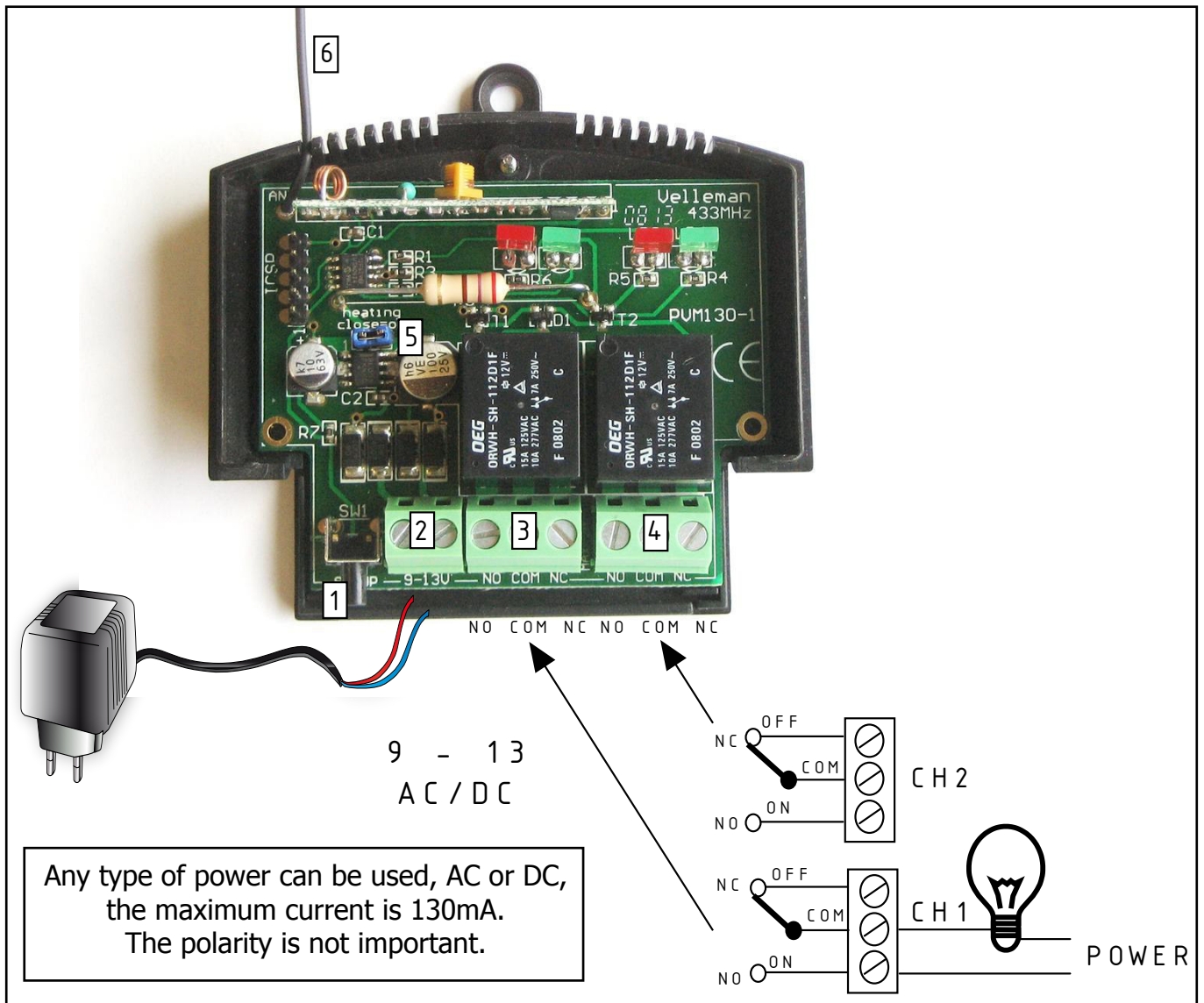
Description

Disconnect relay outputs during setup!

1. 'Setup' button
2. 9 to 13Vac or 10 to 15Vdc input
3. Channel 1 output
4. Channel 2 output
5. Heating ON/OFF selection jumper
6. Antenna
7. Channel 1 indication
8. Mode / timer indicator CH1
9. Channel 2 indication
10. Confirm / timer indicator CH2

Do not mount the unit in the proximity of other electronic devices or metal objects. Straighten the antenna !

9 - 13
AC/DC

Any type of power can be used, AC or DC, the maximum current is 130mA. The polarity is not important.

Specifications

Receiver:

- power supply : 9 to 13 Vac or 10 to 15 Vdc / 130 mA max.
- selectable timers per output: 0.5, 5, 30 s / 1, 5, 15, 30, 60 min
- open field range of up to 30 m

Transmitter:

- 12 V battery type: V23GA, GP23GA...
- CE compliant 433 MHz operation
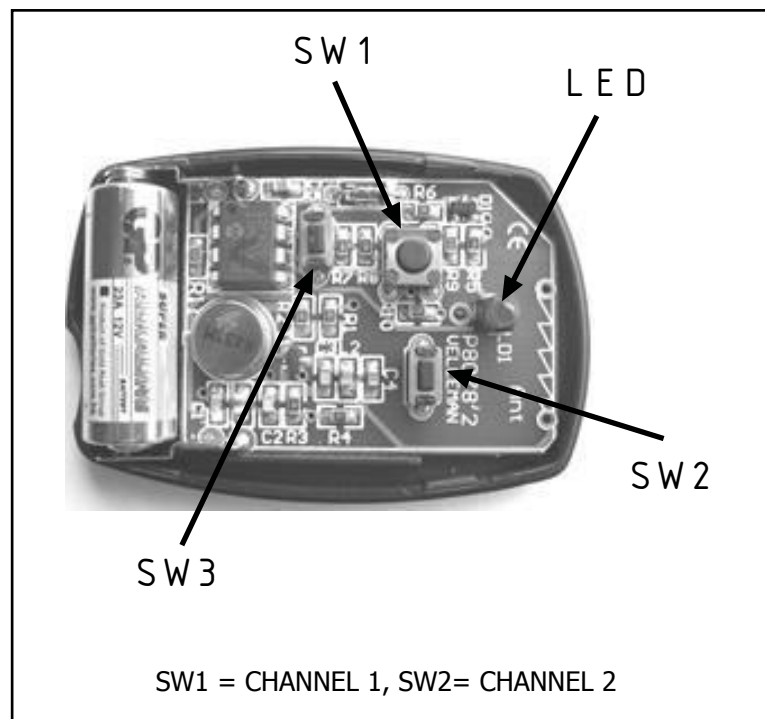- over 1.000.000.000 combinations

Features

- two relay contact outputs (5 A resistive load)
- ON/OFF (toggle) or timer-mode (pulse)
- learning unique 32-bit random code
- up to 31 different transmitters can be stored
- code memory can be erased for safety purposes
- internal heating option for cold environment

Transmitter instructions

The transmitter comes with a factory set default code.

Open the enclosure:

SW1 = CHANNEL 1, SW2= CHANNEL 2

Changing the code:

1. Hold SW1 (left button).
2. Briefly press the 'program'-button (SW3) 3 times. The LED will flash 3 times.
3. Release SW1.
4. Your unique 32-bit code has been generated and stored.

Return to the default code:

1. Hold SW1 (left button).
2. Hold the 'program'-button (SW3). After +/- 10s the led will flash 5 times.
3. Release both buttons.
4. Your code has been reset to the default code.

Receiver instructions

Each transmitter generates a code that must be "known" by a receiver in order to operate. Proceed to the next step to store one or more transmitters in the receiver memory.

To learn a remote:

1. Connect the power supply to the receiver unit (see page 2)
2. Hold 'setup' button, '**MODE**'-led (8) turns on after a few seconds.
3. Press any remote control transmitter button.
4. '**CONFIRM**'-led (10) lights when the code has been grabbed.
5. Release '**setup**' button.

If neccesary repeat steps 2 to 5 to learn the codes for other transmitters.

⚠ 31 transmitters can be stored. If memory is full, '**MODE**' and '**CONFIRM**' will flash simultaneously when 'setup' button is pressed (see also next page to erase the memory).

The relay outputs can be set to different modes, from a simple on/of contact to a short or long timer.

Configuration of channel 1 'CH1' and channel 2 'CH2':
(Factory defaults: CH1: 1h timer, CH2: 0.5s pulse)

1. Connect the power supply to the receiver unit (see page 2).
2. Push '**setup**'-button repeatedly to select CH1 (left) or CH2 (right) output relay.
3. Confirm with a long push ('**CONFIRM**' flashes 3 times). The selected relay will remain ON.
4. Push '**setup**'-button a number of times, depending on the desired mode (see table). At each press, '**MODE**' will flash a number of times, indicating the current mode
5. Confirm with a long push ('**CONFIRM**' flashes 3 times). The selected channel will turn off and the unit is ready for use.

If necessary, repeat steps 2 to 5 for the remaining channel.

⚠ The unit returns to normal operation when left idle for 10s.

Flashes	Mode
1	ON/OFF
2	0.5 s pulse
3	5 s timer
4	30 s timer
5	1 min timer
6	5 min timer
7	15 min timer
8	30 min timer
9	1 h timer

Use:

NOTE: Operate the transmitter during at least 2 seconds.

The left remote button controls CH1 relay, the right remote button controls CH2 relay. Each relay is equipped with a status LED. In '0.5s timer'-mode, a relay will remain on for as long as the remote button is held.

If a timer has been set for a particular channel, the relay will turn on when the button is pushed. When the preset time has elapsed, the relay will turn off. A timer can be turned off at any time by pressing the transmitter button again. As long as the timer is running, the corresponding led will flash.

In 'ON-OFF'-mode, the relay will toggle between ON and OFF every time a button is pushed.

IMPORTANT: To minimise the idle current, remove the heating jumper if the unit is used inside a car.

To remove all learned remotes from memory:

- turn off the power (disconnect power supply)
- hold 'setup' button
- turn on power (connect power supply)
- 'MODE' and 'CONFIRM' start flashing
- release 'setup' after the LED's turn off

⚠ This process takes about 10 seconds.

⚠ If the button is released before the LED's turn off, the memory will not be cleared.

⚠ The unit will now respond to the default code only. Please also reset the transmitter to the default code.

ORDERCODE: VM130

REVISION: VM130'3

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