

**Kemo Electronic GmbH**

Mato Vukovic
 Leher Landstr. 20
 27607 Geestland
 Germany

Phone: +49 4743 9338-0
 Fax: +49 4743 9338-22

<http://www.kemo-electronic.de>
 email: info@kemo-electronic.de

HR.Nr. HRB 111 486
 UstNr: DE 814 380 369

M229 - Protección de vehículos a batería Marten con placas de contacto Dual Pol



Marten defence with electric shock, high-frequency sounds and flashing LEDs and 6 double high-voltage contact plates with positive + negative connection. With built-in batteries (4 x AA), independent of the electrical system. No electrical connection to the electrical system of the motor vehicle required. Modern microprocessor control: The high-frequency scaring signals are emitted irregularly and at random intervals in order to avoid a habituation. The device switches on automatically by means of a vibration sensor only when the car is parked. The two-pole double contact plates ensure that the marten gets an electric shock in any case, even if it does not stand on a metallic base in the car (it must only touch both contact surfaces at the contact plates at the same time).

Technical Data:

Batteries: required 4 x AA (UM 3 mignon, alkaline-manganese or a similar high-grade quality)

Current consumption: Ø approx. 0.25 mA

Battery durability: approx. 1 year depending on the quality of the batteries.

Circuit breaker: There is a circuit breaker on the side of the device.

Loudspeaker: high-power piezoelectric loudspeaker with vaulted aluminium membrane for broad sound radiation.

Sound pressure: max. approx. 105 dB ± 20%

Ultrasound: sinusoidal, randomly interrupting and varying frequency against habituation (one pulse approx. every 9 - 30 sec., approx. 21 - 24.5 kHz).

High-voltage: approx. 220 - 260 V/DC 3 LED displays: flashing to control the ultrasound, high-voltage + battery.

Vibration switch: built-in vibration switch, which switches the marten scarer off when the motor is running and activates it again in parking position (the motor does not run).

Temperature range: approx. -20 to +80°C (also dependant on the inserted batteries, which often have a limited temperature range).

Approval mark: yes, the e1 mark granted by the Federal Motor Transport Authority

Dimensions: approx. 140 x 100 x 43 mm (without switch)

Dimensions two-pole high-voltage shock plates: approx. 60 x 60 x 12 mm. Positive + negative contacts on 2 levels.