



Kemo M204 Power Regulator Component Instruction Manual

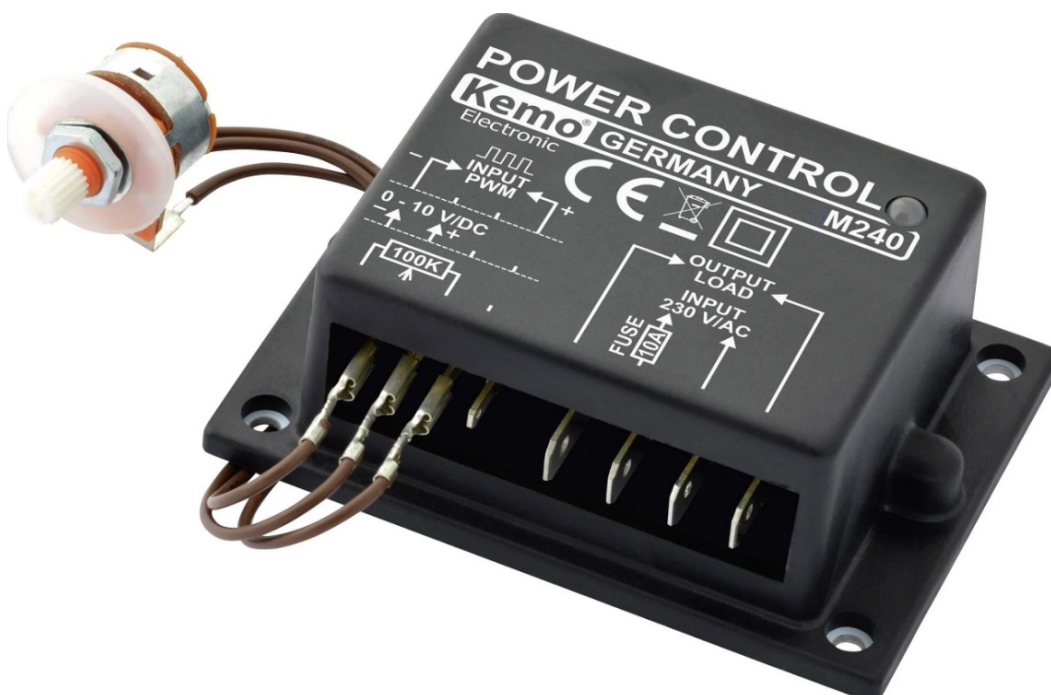
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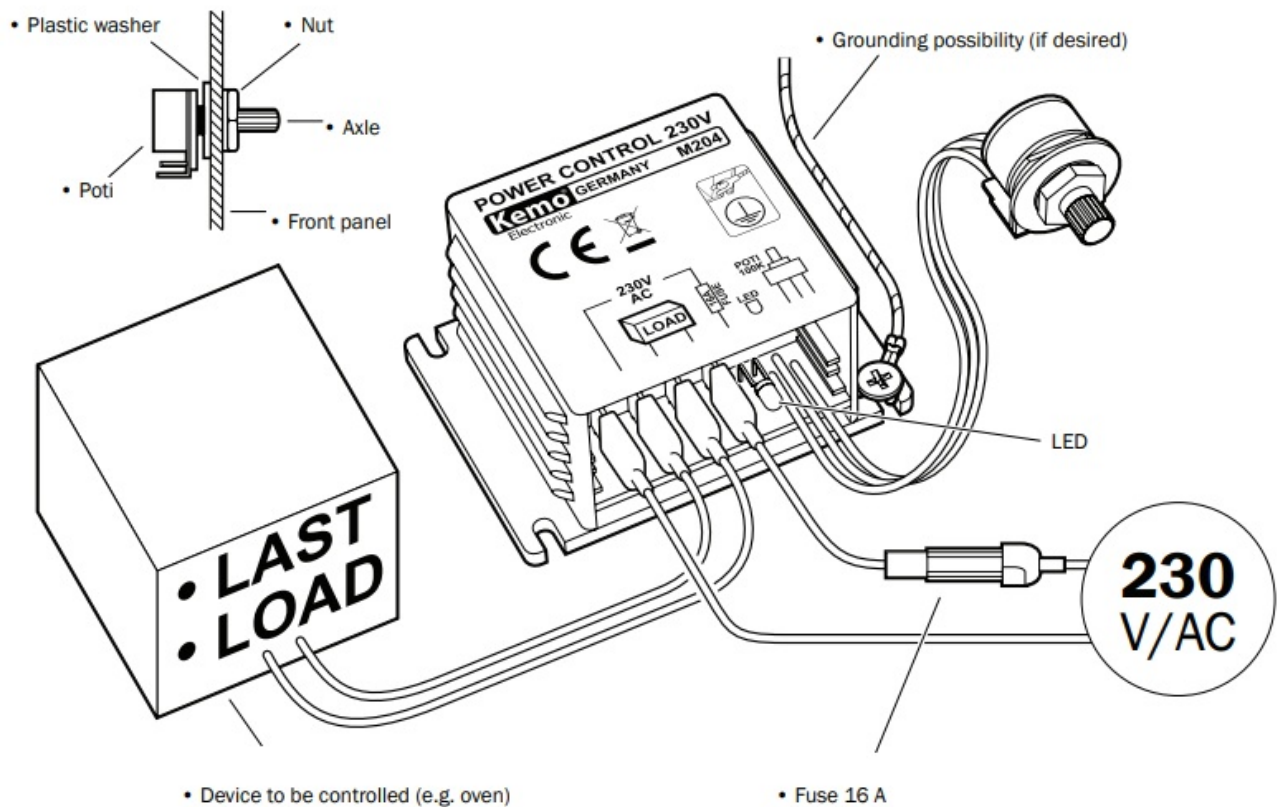
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Kemo M204 Power Regulator Component



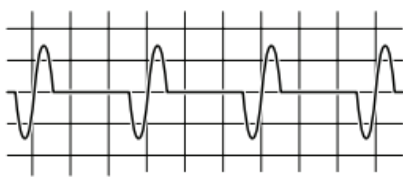
CONNECTION EXAMPLE



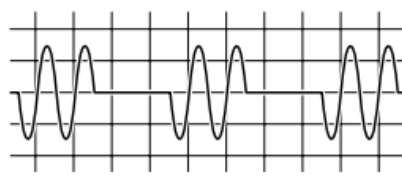
M204 | Power Control 230 V, max. 16 A for heaters

Regulates ohmic loads like heaters, etc. without additional need for interference suppression with pulses in zero crossing. Regulation takes place by switching on and off in pulses. It is, therefore, only suitable for heaters (heating plates, welding wires, thermal welding machines, ovens, etc.). Not suitable for motors and lamps (they would sputter and blink, respectively).

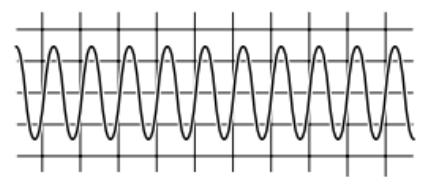
CONTROL CURVE EXAMPLES



• Low power



• Reduced power



• Full Power

Intended use:

For the regulation of heaters for 220 – 240 V/AC

Schaltungsbeschreibung

Depending on the position of the potentiometer, the module switches the heating on and off, always in a phase zero crossing, respectively. The switching frequency amounts to approx. 0.8 Hz. The length of the switch-on phases depends on the position of the control potentiometer. Controller setting to the left: short switch-on phases and low heating power. Controller is set more to the right: longer switch-on phases and higher heating power.

Assembly instructions:

The module may heat during operation depending on the load. Therefore, it has to be mounted in a well ventilated place. If the metal case of the module heats up to more than 60°C, it has to be either screwed on an additional heat sink or has to be blown by a small ventilator. During a well ventilated normal operation up to 1000 W,

however, this should not be necessary.

The module may only be installed by an expert (e.g. electrician) considering the safety regulations of the VDE. In this connection it is absolutely important to make sure that the fingers cannot touch live contacts. The potentiometer is fully insulated at the operating axis and fastening thread. The installation has to be made in such a manner that only the insulated operating axis may be touched and not the electrical connection pins. Furthermore, a fuse has to be connected in series according to the drawing.

The cables towards the module have to be secured against unintentional pulling out (strain relief).

If you think that it is necessary to earth the case, then the black colour has to be scraped off at one fixing hole of the case according to the drawing and a cable-fastening eye with cable for earthing is to be connected electrically with the case.

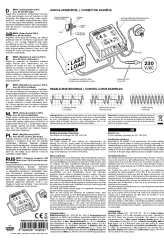
False connection, short-circuit or overload in the load circuit, too high operating voltage ($> 240 \text{ V/AC}$) or overheating (insufficient ventilation) will destroy the module immediately. Since the function of each module has been tested carefully before dispatch, replacement at our expense is not possible!

Technical data

- **Operating voltage:** 220 – 240 V/AC, 50 – 60 Hz |
- **Output voltage:** pulsating, approx. 0.8 Hz with adjustable pulse length, switching on and off in phase zero crossing, respectively. Thus, almost no radiointerferences occur. | Max. current carrying
- **capacity:** approx. 16 A
- **Connection:** via flat plug 6.3 mm | Current consumption without
- **load:** approx. 0.3 W | Aluminium metal case with cooling rib, potted
- **Regulation via a connected and included potentiometer:** approx. 0 – 100%. The potentiometer is fully insulated on the operator side.
- **Operation display:** with installed LED
- **Dimensions:** approx. 55 x 50 x 36 mm (without mounting straps)

Important: Please pay attention to the “General Information” in the printed matter no. M1002 attached in addition. This contains important information starting and the important safety instructions! This printed matter is part of the product description and must be read carefully before assembling.

Documents / Resources

	<p>Kemo M204 Power Regulator Component [pdf] Instruction Manual M204 Power Regulator Component, M204, Power Regulator Component, Regulator Component, Component</p>
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References

-  [Kemo Electronic GmbH](#)

