

VM-100
voltage meter

Musikhaus Thomann
Thomann GmbH
Hans-Thomann-Straße 1
96138 Burgebrach
Germany
Telephone: +49 (0) 9546 9223-0
E-mail: info@thomann.de
Internet: www.thomann.de

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Table of contents

1	General notes.....	4
2	Safety instructions.....	7
3	Features.....	10
4	Installation.....	11
5	Connections and operating elements.....	12
6	Maintenance.....	16
7	Technical specifications.....	18
8	Protecting the environment.....	19



1 General notes


This user manual contains important information on safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device, include the manual for the next owner.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

Symbols and signal words

This section provides an overview of the symbols and signal words used in this user manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.
	Warning – hot surface.

Warning signs	Type of danger
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used as mains voltage distributor and rack illumination. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety



DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard! Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke! Never let children unattended use electrical devices.



DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers. There are no user-serviceable parts inside. Do not use the device if covers, protectors or optical components are missing or damaged.



DANGER!

Electric shock caused by short-circuit

Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



NOTICE!

Risk of fire



Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.



NOTICE!

Operating conditions



This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations. Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures). Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.



NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user. Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

3 Features

- Power supply for up to eight electrical loads with IEC sockets
- Filters to protect the connected units against interference and voltage peaks
- Resettable electronic overload fuse
- Two dimmable rack lights
- Supply voltage monitoring via tricoloured LED chain

4 Installation

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

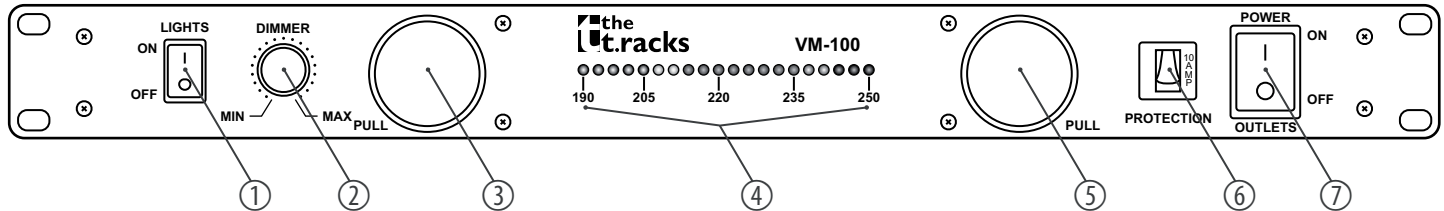
Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

Rack mounting

The unit has been designed for rack mounting in a standard 19-inch rack; it occupies one rack unit.

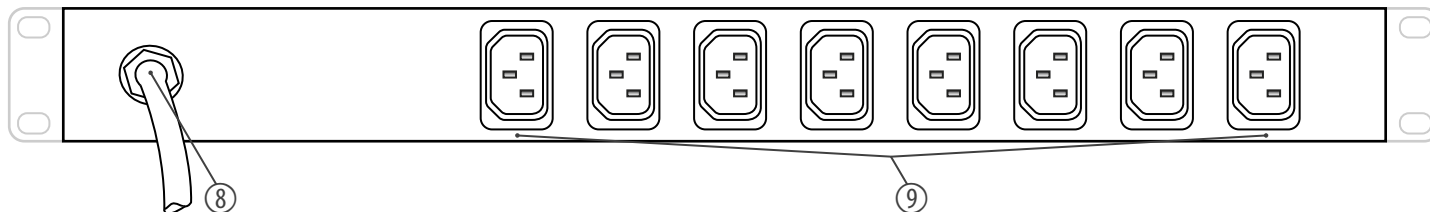
5 Connections and operating elements

Front panel



1	<i>[LIGHTS]</i> Rack illumination switch
2	<i>[DIMMER]</i> Stepless dimmer control for rack illumination
3, 5	Extensible rack lights. Pull out the rack light and adjust the light beam as desired.
4	Indicates the currently available mains voltage in a range of 190 V...250 V
6	<i>[PROTECTION]</i> Resettable fuse for the power supply outlets on the rear panel
7	<i>[POWER OUTLET]</i> On / off switch for the power supply outlets on the rear panel

Rear panel



- | | |
|---|---|
| 8 | Mains connection |
| 9 | IEC chassis sockets to supply up to eight devices |

6 Maintenance

Replacing the lamp



DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present.

Completely disconnect the device from the power supply before you open or remove covers. Mount all covers and attach them firmly before connecting the device again.

Do not use the device if covers, protectors or optical components are missing or damaged.



WARNING!

Risk of burns

The lamp becomes hot during operation and can cause burns if you touch it.

Do not touch the lamp during or shortly after operation. Allow the lamp to cool down sufficiently before replacing it.

Procedure

- 1.** ▶ Make sure that the device is turned off, disconnected from the mains and completely cooled down.
- 2.** ▶ Pull out the faulty rack lamp (3, 5). Unscrew the cap from the end of the rack light.
- 3.** ▶ Replace the lamp.
- 4.** ▶ Screw the cap back onto the end of the rack light.
- 5.** ▶ Reconnect the device to the mains.

7 Technical specifications

Output connections	Power supply of further devices	8 × IEC chassis plug
Supply voltage	220 - 240 V ~ 50/60 Hz	
Fuse	10 A, resettable	
Maximum connected load	2200 W	
Mounting options	Rack mounting, 1 RU	
Dimensions (W × H × D)	482 mm × 44 mm × 229 mm	
Weight	3 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20 %...80 % (non-condensing)

8 Protecting the environment

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

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