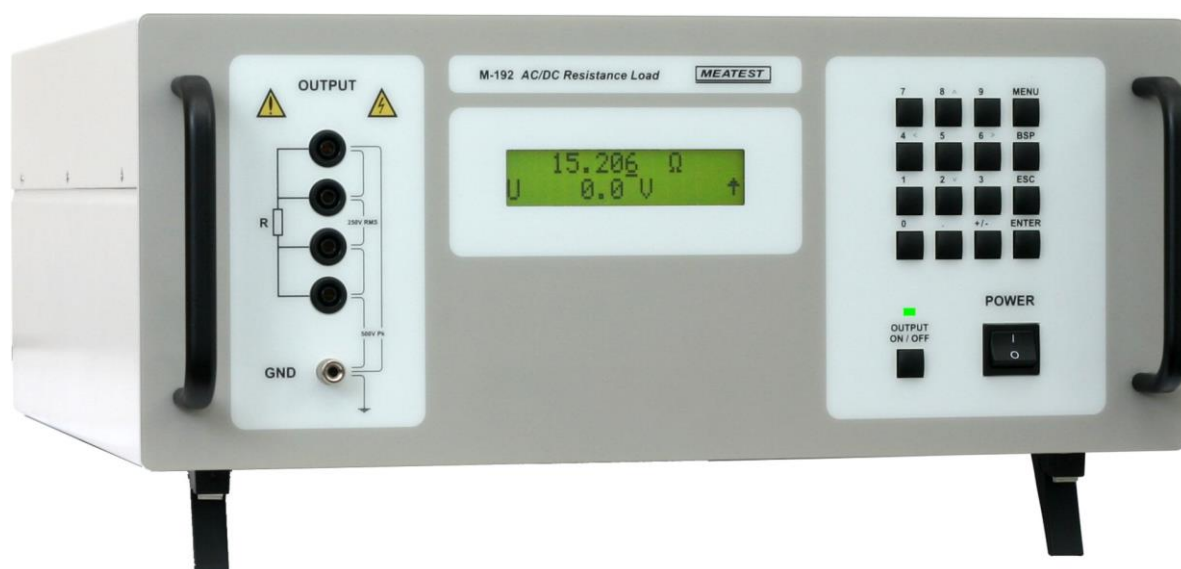


# M-192/192A AC/DC Resistance Load

## 3000 W



- Resistance range from 15  $\Omega$  to 300 k $\Omega$
- Maximal load 3kW, maximal voltage 250V RMS
- Accuracy 0.1%
- Temperature coefficient < 10 ppm/ $^{\circ}$ C
- 2, 4 – wire connection
- Interface RS - 232 (IEEE488 optionally)
- Table version (19" module as option)

M-192 AC/DC load is determined for testing voltage sources, transformers or generally as power load up to 3kW. Load is especially suitable for automated testing systems.

Thanks to good accuracy and remote control feature M-192 load can be used in calibration laboratories, production lines, service centers and development departments. For use in industry is designed version in 19" module with height 4HE.

Among advantages belongs features like simple control from the front panel, indication of set-up values on LCD display, resistance, power and current modes, remote control via RS-232 or IEEE488 bus.

## Technical data

<b>Resistance range</b>	:	15 Ω - 4700 Ω / 15 Ω - 300 kΩ (version M-192A)
<b>Resolution</b>	:	0.1 Ω to 1 Ω for M-192 version 0.001 Ω to 1 kΩ for M-192A version
<b>Temperature coefficient</b>	:	< 10 ppm/ °C
<b>Maximal dissipation power</b>	:	3000 W
<b>Maximal voltage</b>	:	250 V RMS
<b>Internal voltmeter (M-192A only)</b>	:	range 300V AC/DC, AC/DC automatic selection, resolution 0.1V
<b>Connection</b>	:	2, 4 wires
<b>Range of reference temperatures</b>	:	+18 °C ... +28 °C
<b>Range of operating temperatures</b>	:	+5 °C ... +45 °C
<b>Storing temperatures</b>	:	-10 °C ... +60 °C
<b>Housing</b>	:	metal
<b>Dimensions and weight</b>	:	W 460 mm, H 190 mm, D 440 mm (without holders), 15 kg
<b>Isolation resistance</b>	:	> 2 GΩ (between signal outputs and housing at 1000Vdc)
<b>Languages</b>	:	English, German, Czech

Resistance accuracy (M-192A only up to 4700 Ω)

Range	Accuracy
15.000 Ω - 99.999 Ω	0.1 % + 30 mΩ
100.000 Ω - 3.000 kΩ	0.1 %
3.001 kΩ - 30.00 kΩ	0.1 %
30.1 kΩ - 100.0 kΩ	0.2 %
101 kΩ - 300 kΩ	0.5 %

Internal voltmeter (M-192A only)

Range	Accuracy	
	DC	AC
1.0 - 299.9 V	0.1 % + 0.2 V	0.2 % + 0.2 V

Frequency response (M-192A)

R	Max. AC/DC difference		
	100 Hz	1 kHz	10 kHz
15 Ω	0,01 %	0,01 %	0,05 %
100 Ω	0,01 %	0,04 %	0,40 %
1000 Ω	0,04 %	0,40 %	4,00 %
10 kΩ	0,40 %	4,00 %	
100 kΩ	4,00 %		

### Content of delivery

M-192/192A Programmable AC/DC Load  
Operation manual  
Power cable  
Test report

### Versions

**Interface** M-192-V1xxx - RS232  
M-192-V2xxx – IEEE488  
**Housing** M-192-Vxx0x – table version  
M-192-Vxx1x - module 19", 4HE