

Measurements (quiescent voltages)

Amplifier: MADAMP G3 Blues

IMPORTANT

- Turn on the amplifier at least 5 minutes before starting any measurement.
- Please use correct measuring leads (suggestion: at least CAT III / 600 V).
- Use the same electrical point of reference for all **DC measurements**. Most suitable is the central ground connection, so please connect the negative lug terminal of your meter to this lug.
- For maximum security please isolate most of the tip of your measuring lead with shrinking tube to prevent shorts (e.g. when measuring at the tube sockets).
- Please perform all measurements w/o any input signal and w/o a cable connected to the input plug socket. The input resistance should be 0 (short), please check before measuring the voltages.
- To prevent any damages to the output transformer, please connect a speaker or high power (10W) resistor before you start measuring.
- When performing measurements **1, 2, 3 and/or 20**, please switch your meter to **VAC** and connect both measuring leads to the respective lugs as described below (**not against ground!**).

MEASUREMENTS

Date: 24/04/2021

Performed by: Geofffc

No.	Checkpoint	Should be	Is	Comment
1	Wall plug socket *	230 VAC	251	Power Supply input voltage at start of measurement
2	V3-4/5	6,5 VAC	6.6	Heater voltage at tube socket V3 - between Pin 4 und 5
3	BR1- ~/~	208 VAC	232	Input of bridge rectifier BR1 - between the two "~/~" lugs
4	(A) lug 21 t **	260 VDC	289	Supply voltage to V3
5	(B) lug 18 t	237 VDC	263	Supply voltage to V2
6	(C) lug 18 b	225 VDC	250	Supply voltage to V1
7	V1-1	225 VDC	250	At plug socket
8	V1-3	81 VDC	85	At plug socket
9	V1-6	105 VDC	107	At plug socket
10	V1-7	1,2 VDC	1.3	At plug socket
11	V1-8	110 VDC	121	At plug socket
12	V2-1	185 VDC	205	At plug socket
13	V2-3	50 VDC	56	At plug socket
14	V2-6	166 VDC	179	At plug socket
15	V2-8	3,0 VDC	3.5	At plug socket
16	V3-1	251 VDC	297	At plug socket
17	V3-6	254 VDC	300	At plug socket
18	V3-3+8	10,5 VDC	12.1	At plug socket, please measure at both lugs!
19	(R13) lug 10 b	47 VDC	52	an R13 unten
20	Wall plug socket*	230 VAC	250	Power Supply input voltage at end of measurement

Voltages may vary +/- 10% when power supply input voltage is exactly 230V.

* Best to measure at a wall plug socket next to the amplifier.

** pin 21 t: = lug number 21 (t=top, b=bottom, layout plan view)