

M7 User Instructions - Brief_{R3}



General

AC power enters through the front panel line cord. Filtered power is sent to the front panel Outlet (unless A is in Bypass Mode)

A

This switch selects to use certain of the filtering characteristics - **Normal Mode**, or to completely bypass all filtering - **Bypass Mode**.

B

This switch selects whether the M7 acts as a "parallel filter" - **RxDNA Mode**, or the M7 acts as a DNA Line Filter - **Line Filter Mode**. Any Dirty Electricity coming into the M7 on the line cord, will be filtered much more effectively in the Line Filter Mode.

C

The various DNA Line Filters have different internal components based upon the current level that they can carry. This switch selects whether the M7 is simulating a M100 or M200 filter - the **M100/M200 Mode**, or the M7 is simulating a M20 or M30 filter - the **M20/M30 Mode**.

D

This switch selects whether the M7 is in the standard frequency filtering characteristic - **Standard Frequency Mode**, or the low frequency filtering characteristic - the **Low Frequency Mode**.

E

This switch selects whether the M7 is in the RxDNA-V2 or the RxDNA-V2X mode.

A Typical Test Scenario

- Connect M7 Line Cord to AC Line
- Connect a 1 to 2 amp resistive load (heater or incandescent lamp) to the Outlet on the M7.
- Connect Dirty Electricity (DE) measurement instrument(s) to the M7 Outlet.

- Set A to Bypass Mode
- Record baseline DE

- Set A to Normal Mode
- Set B to RxDNA Mode
- Set E to RxDNA-V2 Mode
- C (we don't care)
- Set D to Standard Frequency
- Record DE

- Set A to Normal Mode
- Set B to RxDNA Mode
- Set E to RxDNA-V2X Mode
- C (we don't care)
- Set D to Standard Frequency
- Record DE

- Set A to Normal Mode
- Set B to RxDNA Mode
- Set E to RxDNA-V2 Mode
- C (we don't care)
- Set D to Low Frequency
- Record DE

- Set A to Normal Mode
- Set B to Line Filter Mode
- Set C to either M20/M3 or M100/M200 depending on what the final application will be.
- Set D to Standard Frequency
- E, don't care
- Record DE

- Set A to Normal Mode
- Set B to Line Filter Mode
- Set C to either M20/M3 or M100/M200 depending on what the final application will be.
- Set D to Low Frequency
- E, don't care
- Record DE

NOTE: the A - E nomenclature has been added to the images for this document. Those nomenclatures are not on the actual physical M7 front panel.