

M7 User Instructions - Brief_{R2}



General

AC power enters through the front panel line cord. Filtered power is sent to the front panel Outlet (unless S1 is in Bypass Mode)

S1

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

S2

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.

S3

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**.

S4

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**.

S5

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 S1 to Bypass Mode
- Record baseline DE

- Set S1 to Normal Mode
- Set S2 to RxDNA Mode
- Set S5 to RxDNA-V2 Mode
- S3 (we don't care)
- Set S4 to Standard Frequency
- Record DE

- Set S1 to Normal Mode
- Set S2 to RxDNA Mode
- Set S5 to RxDNA-V2X Mode
- S3 (we don't care)
- Set S4 to Standard Frequency
- Record DE

- Set S1 to Normal Mode
- Set S2 to RxDNA Mode
- Set S5 to RxDNA-V2 Mode
- S3 (we don't care)
- Set S4 to Low Frequency
- Record DE

- Set S1 to Normal Mode
- Set S2 to Line Filter Mode
- Set S3 to either M20/M3 or M100/M200 depending on what the final application will be.
- Set S4 to Standard Frequency
- S5, don't care
- Record DE

- Set S1 to Normal Mode
- Set S2 to Line Filter Mode
- Set S3 to either M20/M3 or M100/M200 depending on what the final application will be.
- Set S4 to Low Frequency
- S5, don't care
- Record DE

NOTE: the S1 - S5 nomenclature has been added to the images for this document. Those nomenclatures are not on the actual physical M7 front panel.