

MR7 Technical Specifications:

General Description:

This device outputs 7 independent channels of magnetic pulse energy as a function of the program that is downloaded into the unit using a proprietary programming interface.

The following technical specification refers to any one of the seven channels.

If the same pulse repetition frequency is programmed on different channels, those channels are synchronized to each other with 0 phase difference.

The MR7 operates from its internal rechargeable li-ion battery that is charged via its USB mini-B programming / charging port. The magnetic pulse energy is synthesized using DDS (Direct Digital Synthesis) and uses a master crystal oscillator that insures that all frequencies and pulses are as accurate as the accuracy of the crystal.

Master Crystal:

7.969178 MHz +/- .00025%

Magnetic Pulses:

Fixed pulse width of 12 microseconds independent of repetition frequency.

Repetition frequency Range: (Programmable for each channel)

0.1 Hz to 5000.0 Hz in 0.1 Hz steps

Magnetic Energy:

400 milliwatts typical (minimum 300 milliwatts) during fixed pulse. Average energy depends on repetition frequency and state of battery charge.

Programmability:

The MR7 will hold up to 500 lines of 7 repetition frequencies. Each line may be programmed to run from 1 minute to 999 minutes +/- 5%

When the MR7 is started by pressing the power button, the program starts at the beginning and runs to the end of all lines of programming. The user may also specify the program to repeat up to a maximum of 255 times. After the program has completed together with any repeats, the unit will shut off.

Indications: A Bi-color LED provides system status

With no USB / Charge cable connected:

Green indication: Unit is ON and running program.

Red indication: Unit has low battery and should be charged soon.

Unlit indication: Unit is OFF

With USB / Charge cable connected: Always switch OFF before connecting.

Green indication: Battery is at 100% charge

Red indication: Battery is charging.

Audible Indication:

Single "beep" when unit switches OFF

Multiple "beeps" for a couple of minutes:

Unit has expired its programmed expiration date.

Battery Life: Typical 24 hours of operation, however it depends on the program that is running. The unit should be charged whenever convenient; it will not overcharge if left on charge.

Dimensions: Circular disk: 3.5" diameter, 0.75" thick.

Weight: 114 grams.