

PM-20 Automatic Antenna Tuner



In the last few years, an entirely new amateur operating mode has emerged: "Pedestrian HF Mobile". Compact, self-contained HF transceivers like the Yaesu FT-817 make it possible to talk world-wide while you hike, stroll, climb or amble. Not only challenging and fun, this mode could provide valuable emergency communications in time of need. The low RF levels dictated by battery powered operation makes an efficient antenna a must.

The LDG PM-20 is a small automatic memory tuner designed for battery use that will match an 8' whip on 80 - 6 meters, and with adaptation will work on 160 and 6 meters. It's only 4.5" square, weighs in at a scant 14 ounces, and handles from 0.1 to 20 watts. A radio interface is available, integrating the PM-20 with your favorite transceiver.

Using the PM-20 is simplicity itself, as befits Pedestrian HF Mobile operation. One status LED is the entire user interface; the PM-20 activates automatically whenever a tuning adjustment is needed, as you talk! It's not necessary to transmit a carrier to tune; you just change frequencies or even bands, and simply start talking.

The PM-20 tunes automatically and transparently; you hardly know it's happening. As you walk around talking, the PM-20 makes small adjustments as the orientation of the whip changes. When tuning is not needed the PM-20 enters a sleep state, effectively turning itself off to avoid battery drain. Latching relays hold the tuned configuration even when power is removed, and the 2,000 tuner memories are held indefinitely.

The PM-20 has 2,000 memories, and automatically stores tuner settings as you operate, making return to a previous frequency virtually instantaneous. An internal frequency counter measures your transmission, storing the tuning parameters by frequency. When you transmit again on or near that point, the tuner resets to those parameters in a small fraction of a second.

Your portable HF transceiver, a simple whip and the LDG PM-20 opens up a whole new mode of world-wide communications. Try Pedestrian HF Mobile today with the new LDG PM-20.



Specifications

- 0.1 to 20 watt power range (SSB and CW).
- 2000 memories for instantaneous band changing.
- Tuning time: 0.1 to 3 seconds full tune, 0.1 sec memory.
- Selectable user parameters: Auto/Semi, PM mode, and more.
- 1.8 to 54.0 MHz coverage. Built-in frequency sensor.
- Tunes an 8 foot whip on 80 through 6 meters.
- Optional interfaces for Icom, Alinco, Kenwood and Yaesu available.
- Power requirements: 7 to 16 volts DC at 100 mA Max. 20 uA idle.
- Optional internal battery
- Small Size Enclosure: 4.5" x 4.5" x 1.25".
- Weight: 12 Oz.

LDG Electronics, Inc.

1445 Parran Rd.

St. Leonard, MD 20685 USA

Phone: 410-586-2177

Fax: 410-586-8475

E-mail: ldg@ldgelectronics.com

Web: www.ldgelectronics.com