

Operational Description

The GPS speed and distance system is composed of two units: a transceiver (M850) and a receiver (M849) watch. They allow a sportsman to view his/her speed and distance traveled while in motion.

The transmit section of the Timex M850 operates at two frequencies for encoding purposes as follows: Mark frequency of 137.5KHz; Space frequency of 141.03KHz. The receiver (M849) receives the transmitted radio signals, decodes it and displays the information on the LCD screen of the watch. The system uses an FSK (frequency shift keying) based simplex data communication scheme. The data rate does not exceed 1024 baud. The system is designed to function up to a maximum distance of 1 meter between transmitter and receiver.

The Transmit antenna is permanently attached to the M850 Transceiver.