



## THE MORSETALKER: MMS1



### FEATURES

- COMPLETE SELF CONTAINED SPEAKING MORSE TUTOR
- LATEST STATE OF THE ART MICROPROCESSOR SPEECH SYNTHESIS SYSTEM
- SUITABLE FOR BEGINNERS & PROFICIENT OPERATORS ALIKE
- WIDE SPEED RANGE: 2-20 WPM
- HIGH SPEED OPTION: 12-48 WPM
- VARIABLE GROUP LENGTH & SINGLE CHARACTER FACILITY

### SPECIFICATION

SPEED RANGE	: 2-20 words per minute in 2 w.p.m. increments
CHARACTER GROUP LENGTHS	: One Letter, Five Letters, or Fifty Letters BEFORE TALKBACK
NUMBER OF LEARNING LEVELS	: SIX
POWER REQUIREMENTS	: 9 to 13.8 Volts at 350mA
POWER CONNECTOR	: 5 pin DIN socket
AUDIO OUTPUT LEVEL	: 250mW into 8 Ohms
EXTERNAL LOUDSPEAKER CONNECTOR	: 3.5 mm socket
TAPE RECORDER CONNECTOR	: Phone socket
MORSE KEY CONNECTOR	: 3.5 mm socket
WEIGHT	: 1Kg (2lb 2oz)
OVERALL SIZE	: 187 x 120 x 53mm (7 <sup>3</sup> / <sub>8</sub> x 4 <sup>3</sup> / <sub>4</sub> x 2 <sup>1</sup> / <sub>16</sub> " )

### DESCRIPTION

This unique product is a self-contained SPEAKING MORSE TUTOR and, as well as a random morse generator, the MMS1 incorporates a microprocessor speech synthesis system which provides talk back of the morse after transmission, giving the pupil the opportunity of checking his proficiency.

This unit represents a truly cost-effective means of obtaining a full class A amateur licence, without having to rely on a third party for instruction. The unit requires only a DC power supply, 9 to 13.8 volts, to enable operation and this should be connected to the power socket located on the rear panel via the supplied plug.

To give this product appeal not only to the beginner but also to the proficient operator we have incorporated six 'learning levels'. In this way it is a simple matter to become more and more proficient, even after passing the Morse Test.

The six ranges are: **LETTERS ONLY: A-F, A-M, A-U, A-Z. NUMBERS ONLY: 0-9. LETTERS & NUMBERS: 0-Z.**

Also for each of the above ranges the user can select: 1) One letter, 2) Five letters (One word) or 3) Fifty letters (Ten words) **BEFORE TALKBACK**. In addition a useful facility is provided in that continuous morse can be sent. (No talkback facility in this mode).

Morse can be sent in the range 2-20 words per minute (w.p.m.) in 2 w.p.m. increments. Speed selection is made by depressing the front panel mounted switch marked 'SPEED SELECT'.

However, at speeds of 12 w.p.m. or less, characters are sent at 12 w.p.m. but the spacing is adjusted for the selected speed.

In this way morse rhythm will be instilled, since this is the essence of good morse rather than the 'dots and dashes' approach.

The incorporation of a crystal-controlled reference ensures totally accurate character and space, lengths and intervals thereby producing a perfect rhythm.

The MMS1 contains an internal loudspeaker which may be supplemented by either headphones or an external loudspeaker, by connection to the socket marked 'EXTERNAL SPEAKER' located on the rear panel.

The available audio output level at this socket is 250mW.

In addition a tape recorder socket is also located on the rear panel, so that recordings may be made at any time, without disabling the internal loudspeaker.

It is also possible to use the internal sidetone oscillator for sending practice and this may be achieved by connecting a suitable morse key to the socket marked 'KEY'. (N.B.—This facility does not provide talkback).

The MMS1 utilises 2 microprocessors, 2 memory I.C.'s and various other integrated circuits and semiconductors. All circuitry is constructed on high quality glass-fibre printed circuit board, and the unit is housed in a highly durable black diecast enclosure.

#### HIGH SPEED OPTION

As an optional extra an alternative higher speed EPROM memory I.C. can be purchased providing a 12-48 w.p.m. speed range in 4 w.p.m. increments. Also supplied with this EPROM is an easily attachable label to amend the indicated speed range on the front panel.