

INFO-TECH ELECTRONIC EQUIPMENT

Manufactured by:

DIGITAL ELECTRONIC SYSTEMS, INC.

M-200F



Code Receiver

The Info-Tech M-200F is a code receiver/converter that will accept Morse and standard radio teletype codes (Baudot & ASCII) from your shortwave receiver and convert them to a readout on a video monitor and/or hard copy printout on your serial printer.

This device uses dual microprocessors to let you monitor thousands of C.W. and radio-teletype signals such as Weather, Press, Military, Government, Amateur, and even Satellite transmissions.

Simple connections to your shortwave receiver and video monitor or printer will put your system on the air in minutes for new horizons in listening.

The M-200F is built for continuous operation and is in daily use in Government and Military service.

M-200F Specifications

INPUTS:

Audio - 4 to 600 ohms .25Vp-p

Digital - Auxiliary inputs for use with accessory keyboard or external demodulator.

OUTPUTS:

Video - composite video, 1.5V p-p, negative sync, 5x7 dot matrix, white letters on black background, 64 character ASCII set (upper case only). Four formats, 32 or 72 characters per line, 16 or 25 lines of print (switch selectable). Cursor on or off (switch selectable). 50 or 60hz vertical rate (switch selectable). Scrolling (each line of characters move up a line when that line is completed). No breakup of words of less than 5 characters at end of line.

PRINTER DRIVE.

RS232 level at 110 or 300 baud on all incoming modes, *60 ma. loop driver* for all standard printer speeds, 45 through 300 baud, either ASCII or baudot.

Autostart for activation of printers.

Note:

The 200F will drive all printers, in its output speed range, that will accept data during the printing & carriage return operation of the printer. (Teletype 15, 19, 28, 32, 33, 35, 43. Heathkit H-14 and many others).

DEMODULATOR AUXILIARY OUTPUTS:

Loop driver and TTL levels are available from RTTY demodulator.

DATA CODES:

Morse - 5 to 105 words per minute with automatic speed tracking.

RTTY - Baudot (5 unit code) or ASCII (8 unit code) Baudot, 45, 50, 57, 74 and 100 baud ASCII, 110 and 300 baud

DEMODULATORS:

Morse - Active filter envelope detector
1000 hz. center frequency (user adjustable)
Bandwidth variable, 0-500 hz. with audio monitoring system for audible tuning (loud speaker not furnished)

RTTY - Active filter, high tone set standard
Mark = 2125 hz.

Space 170 shift 2295 hz.

425 shift 2550 hz.

850 shift 2975 hz.

Variable shift 2225 - 2800 hz. approx.

("Variable" space channel allows tuning of non-standard shifts).

Scope outputs on rear panel.

External demodulator required for 300 baud.

FRONT PANEL CONTROLS:

Function selector - selects mode and speed of operation.

Shift selector - selects one of the three fixed or one variable shift for the RTTY demodulator.

CW Sel. - (concentric with function selector) adjusts the bandwidth of the Morse detector.

Var. Adj. - adjusts the frequency of the variable space channel on RTTY.

Clear pushbutton - Clears the video screen

Reset pushbutton - Resets the main microprocessor

Unshift on space - Automatic reset to LTRS case upon receipt of "space"

ATC - Automatic threshold control for better copy of RTTY signals in fading and single tone conditions.

Normal/Reverse - Selects proper phase of incoming RTTY.

Wide/Narrow - Bandwidth adjustment of RTTY demodulator

Limiter - Switches in full limiting for weak signal copy

INDICATORS:

10 step LED bargraph - for peak tuning of Morse & RTTY signals.

Mark and Space LED's - indicate proper RTTY shift tuning.

CW - Morse tuning indicator

AS - Autostart active indicator

BF (Buffer) - indicates buffer overflow for printer outputs.

REAR PANEL CONNECTIONS:

Audio input and Video output (Phono type)
Morse aux., scope, RTTY, ASCII aux., printer loop, auxiliary loop, Printer TTL, Auxiliary TTL, Printer RS-232, Autostart, morse tuning audio, (Jones type plug), Matching connectors furnished.

MECHANICAL:

3 $\frac{3}{4}$ " high x 9" wide x 15" deep (including connectors)

Heavy duty aluminum cabinet

Finish - black textured paint with white lettering

Shipping weight = 9 lbs.

Power requirements - 115/230V nominal. 50-60 hz. 20 watts.

Warranty - Six month limited warranty on parts and labor.

Specifications subject to change without notice.

Info-Tech products are designed and manufactured by:

DIGITAL ELECTRONIC SYSTEMS, INC.

1633 Wisteria Court • Englewood, Florida 33533 • 813-474-9518

UNIVERSAL SHORTWAVE RADIO
Fred Osterman - Manager
1280 Aida Drive
Reynoldsburg, Ohio 43068 U.S.A.