EP 8000 Eprom Emulator — Programmer

EP8000

POWER

C1   8000   18

EP8000 EPROM PROGRAMMER

GP

DEVICES SUPPORTED

27128*
25128*
MK2764
2564
2764
27C64
68764
68766
68732·1
68732·0
2732A
2732
27C32
2532
48016
2716
27C16
2516
2758B
2758A
2508
2716(3)
2708
2704

* programmable only with socket adaptor

The microprocessor controlled EP8000 Emulator Programmer is a powerful tool for both EPROM programming and development work.

The EP8000 can emulate and program all EPROMs up to 8k x 8 bytes, without requiring personality cards or hardware changes. Other devices such as 16k x 8 byte EPROMs, bipolar PROMs and single chip microcomputers are programmable with external modules.

The editing and emulation facilities, video output and serial/parallel input/output provided as standard make the EP8000 very flexible to allow it's use in three main modes:

— As a stand alone unit for editing and duplicating EPROMs.
EPROMs can be blank checked, verified and programmed reliably and efficiently. The LED display allows use in the field, whilst the video O/P provides the user with a larger data display area for development and laboratory use.

— As a slave programmer used in conjunction with a software development system or microcomputer. With the standard extensive interfaces the unit provides a cost effective slave programmer that can cover all EPROMs up to 16k x 8 sizes.

— As an EPROM development system being used as a real time EPROM emulator. Data can be entered into the EP8000 from a computer or development system, using the serial or parallel ports, or the EP8000 keyboard. The simulator cable is plugged into the external host system and a single key isolates the data RAM from the internal circuit and allows the external system to access and run the program in the EP8000 data RAM at full speed.

Then by isolating the external system the data in the RAM may be altered and manipulated using the key functions, or sent back to the development system for revision. Each new program can then be loaded onto cassette for fast, easy retrieval, or burnt into EPROM for use by the external system, independent of the EP8000.

FEATURES

■ Software personality programming and emulation of all EPROMs up to 8k x 8 bytes.

■ No personality cards or characterisers required

■ Use as a stand alone programmer, slave programmer or EPROM development system

■ Checks for misplaced and reversed insertion and shorts on data lines

■ Memory mapped video output allows full use of the powerful editing facilities

■ Built-in LED display for field use

■ Powerful editing facilities include: Block/byte move, insert, delete, match, highlight, shift, define, calculate displacement etc.

■ Comprehensive input/output — RS232 serial port, parallel port, cassette, printer, DMA all as standard

■ Extra 1k x 8 scratchpad RAM for block storage or custom programs

■ Expandable to program 16k x 8 EPROMs, Bipolar PROMs and single chip microcomputers with adaptors

EP 8000 —
Not only a flexible Eprom Programmer but also a powerful development tool
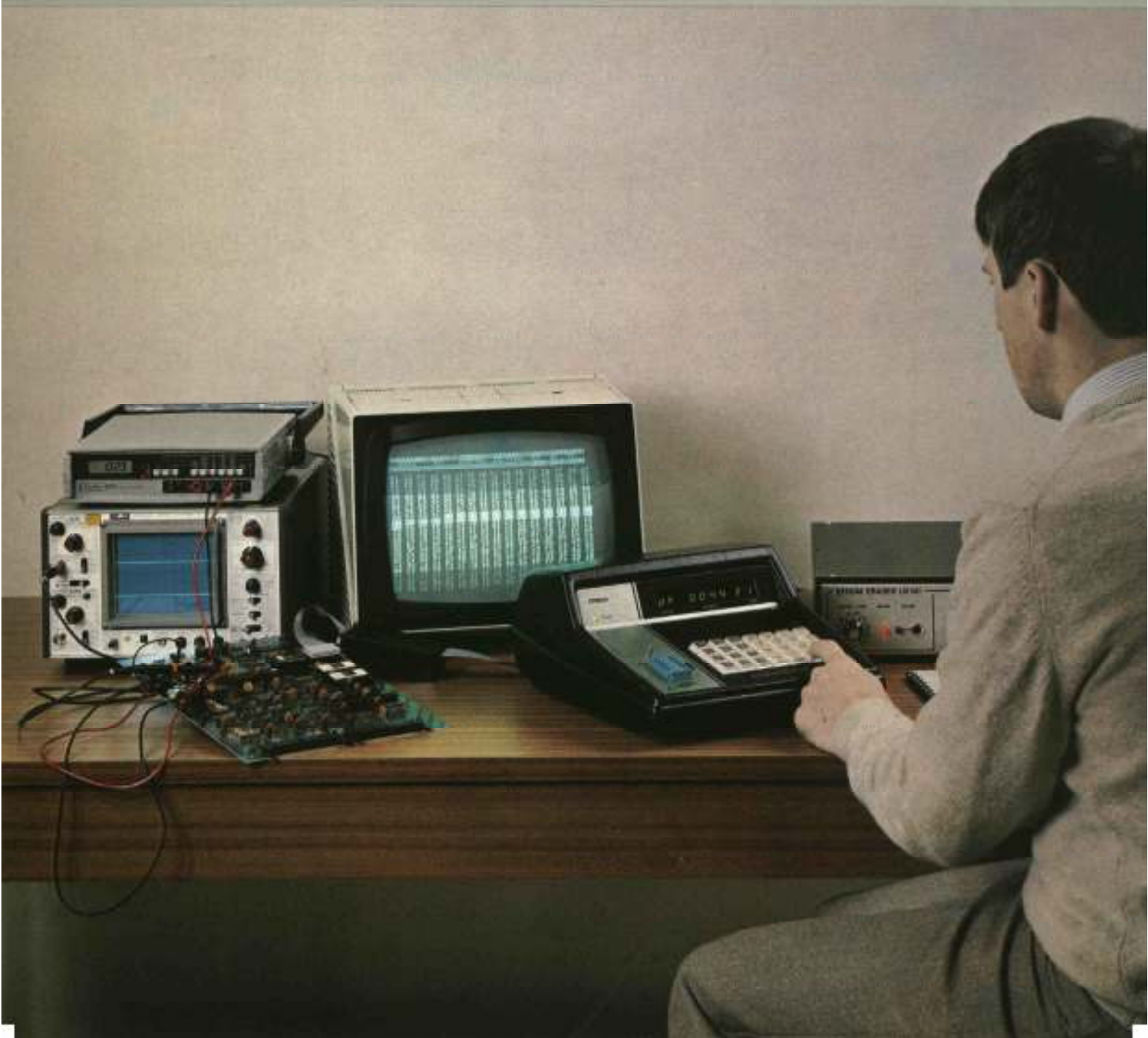
SPECIFICATONS

DEVICES SUPPORTED
Program & Emulation:
27128*, 25128*, MK2764, 2564, 2764, 27C64, 68764, 68766, 68732-1, 68732-0, 2732A, 2732, 27C32, 2532, 48016, 2716, 27C16, 2516, 2758A, 2758B, 2508, 2716(3), 2708, 2704
* programmable only with socket adaptor

PROGRAMMING FUNCTIONS
Program: Initiates programming of EPROM with RAM contents following illegal bit check, program, verify sequence
Verify: Compares EPROM contents with it's specific RAM area. Discrepancy bytes area highlighted on video.
Checksum: Calculates 4 digit checksum of EPROM/provides blank check information
Device Select: Used to select device type via menu

EDITING FACILITIES
Define, shift, insert, delete, match, displacement calculation, clear, scroll, execute, block, scratchpad, MEM (Memory address), PAGE (Screen page selection), RAM

INTERFACES
Serial in/out: RS232, 20mA & TTL Transfer rate 110-6400 baud, user selectable. Formats INTEL ASCII Hex, Motorola Exorciser, GP Binary as standard
Parallel in/out: 8 bit parallel with 2 line handshake
Print O/P: Uses parallel port to interface to Centronics type printer-use GR1 Printer interface cable
Cassette in/out: Fast cassette data transfer and retrieval
DMA: Direct memory access — allows EPROM emulation facility

DISPLAYS
LED Display: 8 character, 7 segment display with antiglare filter. Displays current cursor address and data and mode status. In device select mode, displays EPROM type. Also displays fault information. VIDEO display: Displays main memory area — 256 bytes per screen page. Also preceding and following 64 data bytes.
Display status line on screen gives ADDRESS, DATA, DEVICE, STATUS, DISP information.
In DEVICE SELECT MODE video displays device menu.
Both composite and modulated video output as standard.

MEMORY
8k x 8 STATIC RAM Buffer, 1k x 8 scratchpad RAM, 12k x 8 operating program in ROM, 2k x 8 Memory mapped VDU.
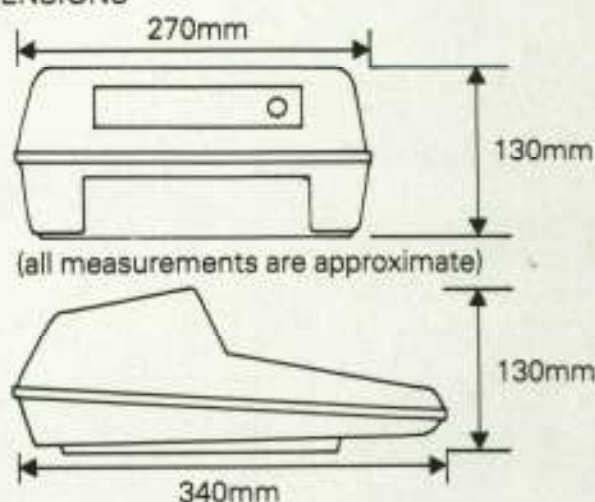
ACCESSORIES
See separate sheets: BSC8, MESA8 emulation cables SA27128, BP4, BP5, PM6 programming adaptors for 16k x 8 EPROMs, Bipolar PROMs and single chip microcomputers.

POWER
240V a.c. 50/60 HZ. 110V a.c. option available.

WEIGHT 3kgs

DIMENSIONS

270mm

130mm

(all measurements are approximate)

130mm

340mm

Specification subject to change without notice