PROM PROGRAMMER
SERIES 90

The Series 90 PROM Programmer is a low cost, portable and highly versatile solution to programming requirements for MOS and fusible link PROMs. The Master Control Unit may have plugged into it one of a series of Personality Modules to program any PROM now being manufactured and any that could be introduced in the foreseeable future.

Its conversational interaction with the operator makes it simple to use in engineering, manufacturing, quality assurance or in the field.

The unit may be used to program PROMs or PROM arrays having up to 4,096 words with up to 8 bits in each word.

The Master Control Unit contains a microprocessor system which gives it the capability to handle the wide variety of PROMs and to interface with TTY, Paper Tape readers or punches, minicomputers and a host of other equipment. Most of these interfaces are available as standard options to the system.

The Personality Modules are readily pluggable modules which contain the specialized interfacing, power supplies and programming instructions required to program specific PROMs or families of PROMs. In many cases a single module enables the user to program several different types of PROMs.

The unit comes in an Attache Case and weighs less than 18 pounds — with a personality card plugged in.

FEATURES

- Simple to operate conversational system.
- Microprocessor controller gives computer power and flexibility.
- PROGRAM, LIST, DUPLICATE, and VERIFY, modes of Operation.
- Unique Program-Verify sequence adapts to needs of each bit.
- A DUPLICATE with advance substitution capability that allows up to sixteen changes to be made in the copy.
- Automatic Zero Check of defined address field.
- Hexadecimal Keyboard (0-9, A-F).
- Six Character Hexadecimal Display of Addresses and Data.
- Auxiliary Binary Data Display.
- Quick Load, Zero Insertion Force, PROM Sockets.
- Forced Air Cooling of PROMs and System.
- Fully portable for field or in-plant use.

SERIES 90

Functions

List: Data stored in a PROM is read out a word at a time. The address is displayed in Hexadecimal and the data is displayed both in Hexadecimal and Binary.

Program: Keyboard Data is Programmed into the copy PROM. A Hexadecimal character defines each 4 bits at each address location in the PROM. Both address and Data are displayed for verification prior to actual programming. The unit automatically reads the PROM to verify correct programming.

Duplicate: Data in a MASTER PROM is automatically programmed into the COPY PROM. Prior to actual programming the operator can enter data corrections for up to 16 words.

Verify: Data in a MASTER PROM is automatically compared to data in the COPY PROM. The Programmer halts on a mismatch and displays the address and data in the Master PROM (in Hexadecimal) and the data in the COPY PROM (in binary). The operator can continue comparing beyond the mismatch. Verification of two matching PROMs takes about two seconds.

Zero Check: Once the operator defines the address field over which he will work, the unit automatically checks that field in the PROM and indicates whether or not it is all zeros.

Includes

M900 Master Control Unit

- Microprocessor Controller with crystal clock and program expansion capability.
- Power On/Off Control — Lighted Circuit Breaker.
- Sixteen Key Data Entry Keyboard (0-9, A, B, C, D, E, F).
- Seven Control Keys: PROGRAM; DUPLICATE; LIST; VERIFY; RESET; CORRECT and ENTER.
- Data Invert Control Switches.
- Six Digit Hexadecimal Display.
- Zero Field Status Light.
- Cooling Fan.
- Attache Case.
- Receptacle and Connectors for Personality Modules.

PM9000 Personality Module

- Zero Insertion Force PROM Sockets for Master and Copy PROMs.
- Binary Data Display for Copy PROM (4 or 8 bits).
- Specialized Interface Circuits, Regulators and Program Instructions for specific PROM.
- Control Switches as required to enable special functions.

Physical Characteristics

- Housed in an 22 inch x 14 inch x 5.5 inch Attache Case
- Maximum weight: 18 pounds

Power Requirements

- Factory wired for either 117 V 60Hz, or 220 V (50-60 Hz).
- Maximum Power: 50 watts.

Personality Modules

PM9001 — For 1702A MOS PROMs (256x8)
PM9002 — For 5202A MOS PROMs (256x8)
PM9003 — For 3601 Fusible Link PROMs (256x4)
PM9004 — For 3604 (Intel) Fusible Link PROMs (512x8)
PM9006 — For 5204 (National) MOS PROMs (512x8)
PM9007 — For 5603A (Intersil) Fusible Link PROMs (256x4)
PM9008 — For 82S126 (Signetics) Fusible Link PROMs (256x4)
PM90XX — FOR OTHER PROMs

Options (All options are factory installed.)

9101 — Paper Tape Reader — Plug in attachment including photoelectric paper tape reader, interface circuits and control program. Expands system capability to program or verify a chip with data on paper tape. ASCII Hexadecimal Tape Coding is standard, but custom code formats may be specified for a small one-time fee.

9102 — Teletype Interface — Programming and interface connector providing hook-up to an ASR-33 (full duplex with remote reader control). Operator may list PROM to punch paper tape or record on Teletype Printer, program PROM from Teletype Keyboard or punched paper tape, or verify PROM with data on paper tape. Normal code is ASCII, Hexadecimal characters.

9103 — Erase Light System 9104 — Parallel Interface 9105 — RS232 Interface

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