

60A LOGIC PROGRAMMER



DATA I/O

**DEDICATED TO
SUPERIOR LOGIC
PROGRAMMING.**

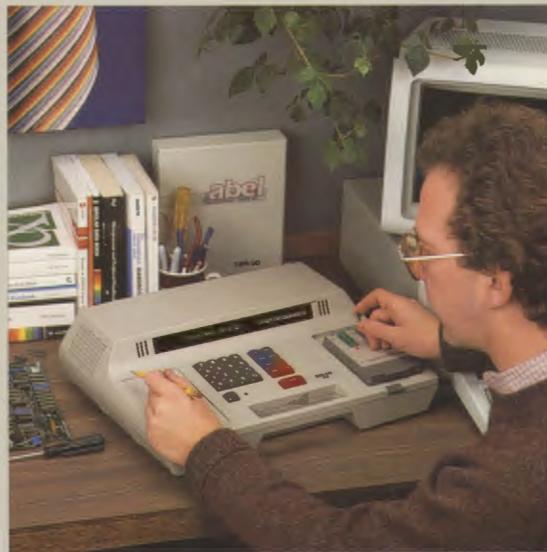
The creation of your circuit designs deserves today's most advanced development tools. Dedicated to popular logic devices, the 60A Logic Programmer offers design engineers programming ease and complete functional testing. You can now spend more energy designing logic and less effort programming devices.

We have worked closely with semiconductor manufacturers during product development to obtain their approval. When you purchase a 60A Logic Programmer, you can be assured that your devices will be programmed precisely to the manufacturers' specifications.

Three programmer configurations are available to support your current device requirements: 20- and 24-pin PAL[®]s; 20-, 24- and 28-pin IFLs; or combined PAL/IFL support. In addition, as new devices and technologies become widely accepted, you can easily expand the 60A's device support capabilities with software updates.

You'll find that dedicated logic support and simplified software updates make the 60A the most cost-effective logic programmer available today.

DESIGN AND PROGRAM WITH THE GREATEST OF EASE. The 60A can be easily operated as a stand-alone station. With a simple operating protocol, it quickly guides you through all programmer functions using easy-to-understand commands. In addition, the 60A allows you to instantly select all functions—such as load, test and program—with minimal keystrokes.



The economical 60A Logic Programmer offers an ideal alternative for design engineers who program only standard PAL[®] and IFL devices.

By operating the 60A in the terminal menu mode, you can link the logic programmer to a personal computer or terminal. You can select options from its internal menu structure displayed on the screen for easy control of the 60A. And the commands are in clear English.

For additional user convenience, you can select your device type directly from the 60A's keyboard by specifying the manufacturer's part number or the Data I/O family and pinout code. And, programming configurations are stored in non-volatile memory (NOVRAM), eliminating the need to reset parameters after the 60A has been turned off.

To further facilitate logic design and programming on a personal computer, Data I/O offers two software tools compatible with the 60A. ABEL[™], a revolutionary high-level language, allows you to specify your logic



Standard RS232 communications in JEDEC format

Enter device type by part number or Data I/O family and pinout code



Easy access to algorithm for software updates

designs in any combination of truth tables, state diagrams or Boolean equations. When you have completed your design, the PROMlink™ software driver provides a convenient IBM® PC interface for selecting all programming functions, as well as storing and retrieving data.

FULL FUNCTIONAL TESTING VERIFIES DEVICE ACCURACY.

Selectable three-level device testing ensures that programmed devices match your design specifications. An automatic array verify confirms that all fuses have been programmed correctly. An optional structured-vectors test compares actual device output with designer-specified results. And our unique Logic Fingerprint™ uses a signature analysis-based technique to compare newly programmed logic devices with known-good master devices.

RUGGED AND RELIABLE PROGRAMMING.

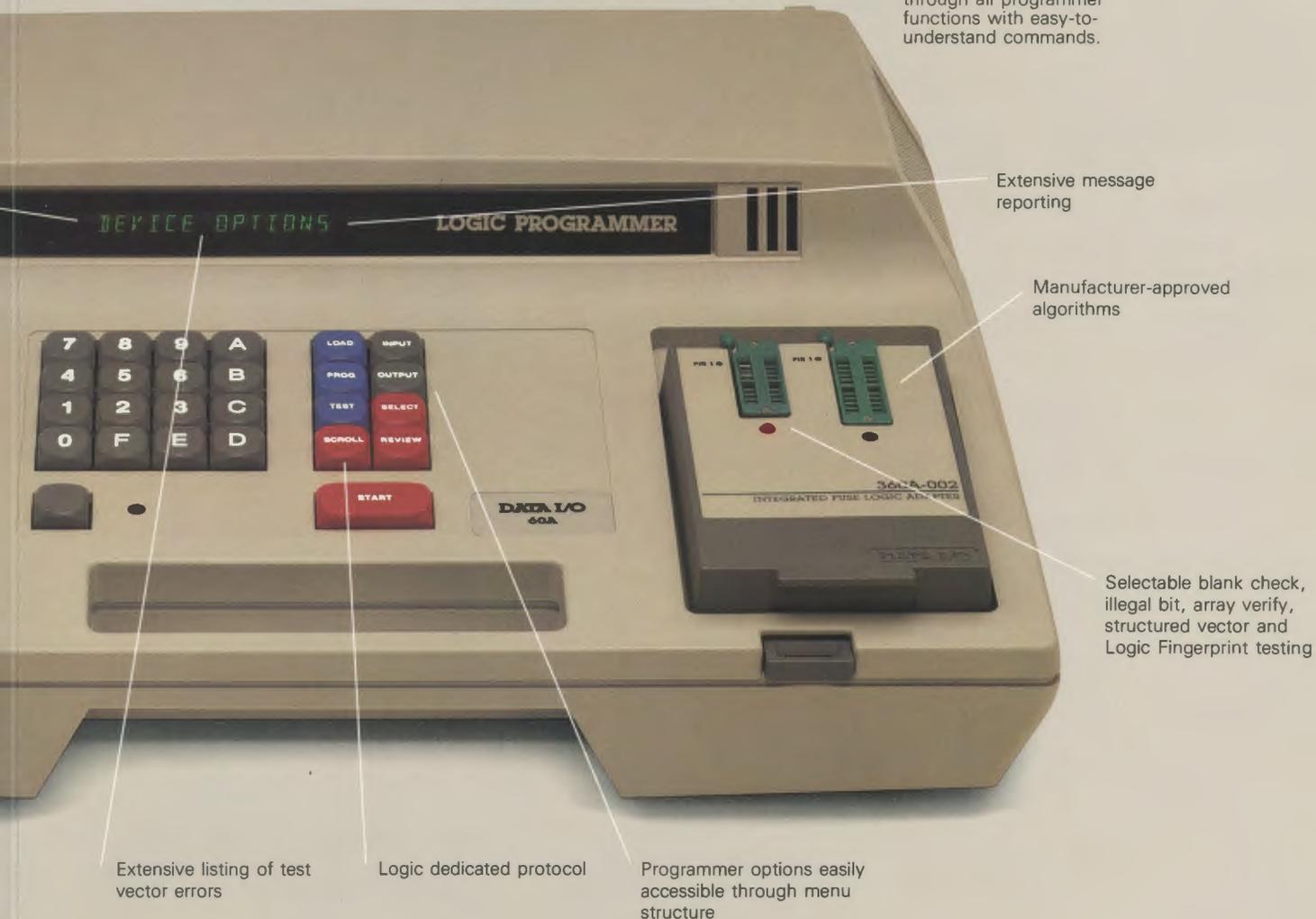
Although the entire programmer weighs only 16 pounds, it is rugged and made to last. For extra protection, the 60A is housed in an

impact-resistant, molded-plastic case. Advanced manufacturing techniques result in high-quality programmers which are well suited for both field and workstation applications.

SERVICE AFTER THE SALE. Our full range of calibration and update contract services helps prevent unscheduled downtime and allows you to budget update and repair costs for an entire year. With worldwide service centers and a network of specially trained technicians, we offer the most comprehensive service packages available from any device programmer manufacturer.



A simple operating protocol quickly guides you through all programmer functions with easy-to-understand commands.



Extensive listing of test vector errors

Logic dedicated protocol

Programmer options easily accessible through menu structure

Extensive message reporting

Manufacturer-approved algorithms

Selectable blank check, illegal bit, array verify, structured vector and Logic Fingerprint testing

THE DATA I/O COMMITMENT TO YOU

Data I/O has become the world's largest supplier of micro-circuit programming equipment by working closely with you and the people who design and manufacture the devices you program.

Our close relationship with all device manufacturers ensures that Data I/O's 60A Logic Programmer accurately implements state-of-the-

art programming algorithms and is prepared to support future devices as they become popular.

Data I/O is fully committed to providing service and support for every programmer we sell.

For more information about the 60A Logic Programmer, consult your Data I/O sales representative.

FUNCTIONAL SPECIFICATIONS

General Architecture:	Microprocessor-controlled (6809)
RAM:	64k x 8 standard
Keyboard:	16-key hexadecimal, 10-key functional
Display:	16-character alphanumeric
Input/Output:	Serial RS232C
Baud Rates:	50, 75, 110, 134.5, 150, 300, 600, 1200, 1800, 2000, 2400, 3600, 4800, 7200, 9600, 19200 (software selectable)
Remote Control:	System 29B/29A/19 computer remote control
Translation Format:	JEDEC-42.1-81-62
Device Testing: (Selectable)	Blank, illegal bit, array verify, structured vectors, Logic Fingerprint™

ELECTRICAL REQUIREMENTS

Operating Voltages:	100, 120, 220, or 240 VAC ± 10%
Frequency Range:	48 to 62 Hz
Power Consumption:	150W maximum
Fuse Protection:	Primary and secondary fuse protection

PHYSICAL AND ENVIRONMENTAL SPECIFICATIONS

Dimensions:	34 x 43 x 11 cm (13.5" x 17" x 4.5")
Weight:	16 pounds
Shipping Weight:	18 pounds
Operating Temperature:	+ 5° to +45° C (41° to 113° F)
Storage Temperature:	-40° to +70° C (-40° to +158° F)
Humidity:	To 90% (noncondensing)
Operational Altitude:	To 10,000 feet

OPTIONS

Device Programming:	20-, 24-pin programmable array logic support; 20-, 24-, 28-pin integrated fuse logic support
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ACCESSORIES

Cover, power cord, instruction manual, operator guide

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