

UNIVERSAL PROGRAMMER PR-875C



CAPABLE OF PROGRAMMING ANY DIL DEVICE WITH UP TO 48 PINS WITHOUT THE NEED FOR ADAPTERS

The **PR-875C** is a universal programmer which works via a parallel port or USB of your PC, enabling you to program, read, copy or check any DIL device with up to 48 pins without the need for adapters.

The **PR-875C** accepts more than 3000 different devices, including logic devices (PAL, GAL, CEPAL, PEEL, FPLA, EPLD, FPGA), memories (PROM, EPROM, E2PROM, Flash, and PROM series) and single-chip microcontrollers.

The following features stand out from among its characteristics:

Ultra-fast programming speed

The intelligent control system of the **PR-875C** reduces the complexity of the system to a minimum. The **PR-875C** is much faster than its competitors (it only takes 8.5 seconds to program a 1 Mbit EPROM), and so is much more productive with today's high density devices.

Checking the insertion and contact of the device

The **PR-875C** carries out a check on the insertion of the device before proceeding to program it. It checks that the device is not badly defined (the actual number of pins differs from that of the device selected), that the insertion is correct (not displaced or inverted), that the connections are correct and that the device is not faulty.

This feature acts as a precaution against costly breakdowns caused by human error or faulty contacts, the latter often being due to aged bases, difficult to detect by other means.

While some up-market programmers offer the possibility of checking the insertion of the device, no other programmer with a cost comparable to the **PR-875C** offers this characteristic.

Detection of the identifier of EPROM and Flash memories

Many EPROM and Flash memories have a burnt-in device identifier and manufacturer identifier. The **PR-875C** can read these identifiers with the aim of determining the manufacturer and the reference of the device. This characteristic automates the selection of EPROM and Flash memories and is specially useful in the identification of devices which have their code accidentally (or intentionally) erased.

Automatic programming

In order to satisfy production requirements, the **PR-875C** incorporates new technologies both in its hardware and in its software. In the Mass Production Mode, the operator inserts a device in the ZIF socket. An LED in the **PR-875C** indicates when the device has been satisfactorily programmed, and the operator then removes the device and replaces it with another. The ease of this operation eliminates the need for specialized training, saving time and money. The keyboard and the mouse are deactivated in the Mass Production Mode, eliminating the possibility of involuntary errors.

Storage of the working file

The **PR-875C** allows the saving of the working configuration file, which contains the selected device, the buffer data and all the configuration options of the program. This file can be loaded for future use without the need to reselect the configuration options.

Auto-increment function

When the devices programmed require individual serial numbers, the **PR-875C** has an auto-increment function: this function increases the serial number whenever a new device is inserted.

Programming and checking voltages

The **PR-875C** provides two checking processes: one process with just VDC checking, or two processes with VDC $\pm 5\%$ and VDC $\pm 10\%$. This characteristic ensures that the device has been properly programmed, preventing faults due to programming errors and ensuring the storage of the data.

PR-875C

SPECIFICATIONS	PR-875C
Socket and pin driver	48-pin DIL/ZIF socket with receptacle for 8-pin to 48-pin 300/600 mil devices Four DACs for VCC, VPP1, VPP2 and VPP3 with 8-bit resolution. TTL driver supports pull-up/pull-down or tri-state control (software selected) on all 48 pins.
Supported devices	Memory PROM, EPROM, E2PROM, Flash, serial PROM, NV RAM Logic devices: PAL, GAL, CEPAL, PEEL, FPLA, EPLD, FPGA, CDL Others: single-chip microcontrollers, OTP/Flash
Device operations	Read, blank check, device insertion/contact check, verify, checksum, EPROM ID check, compare, erase chip, function test, program, security fuse, microprocessor configuration, device search, edit buffer, mass production mode, modify vector, auto device ID increment.
PLD vector tester	Accepts JEDEC test vectors up to 48 pins Rise time: 2500 V/μs
File format conversion	JEDEC, POF, Binary, Intel HEX, Intel EXT HEX, MotorolaS, HP 64000ABS, ASCII, Hex and Tektronic Hex.
PC system requirement	Operating system: Windows 95, 98, Windows 2000, Windows NT, Windows XP Processor 386SX/DX, 486DX/DX2/DX4 or higher 8 MB RAM minimum, 32 MB RAM recommended Hard disk with 16 MB free space CD-ROM disk drive Configured parallel port EPP
General Power Supply Frequency margin Power consumption Operating temperature CE certified	100÷240 V AC 47 ÷ 63 Hz 25 W 5 to 45°C
Accessories included	Software for Windows, Centronics cable, Mains cable and User's manual
Mechanical features Dimensions Weight	W.310 x H. 55 x D. 175 mm 1.8 kg

Adapters for encapsulated non-DIL devices

By means of its automatic assignment system, it accepts any DIL device with no need adapters. For other type of encapsulation suitable adapters are provided. The following table shows the usual adapters.

For other encapsulated devices, please to consult.

ADAPTER	TYPE	MODEL
44 pins PLCC to 44 pins DIL	SDP-UNIV-44	AD-081
32 pins TSOP to 32 pins DIL	SDP-UNIV-32 TS	AD-082
20 pins SOIC to 20 pins DIL	SDP-UNIV-20 SO	AD-083
16 pins SOIC to 16 pins DIL	SDP-UNIV 16 SO	AD-084
20 pins PLCC to 20 pins DIL	PLCC 2020-01	AD-085
28 pins PLCC to 24 pins DIL	PLCC 28 24-04	AD-086
32 pins PLCC to 28 pins DIL	PLCC 3228-11	AD-087
32 pins PLCC to 32 pins DIL	PLCC 32 32-11	AD-088
28 pins SOIC (0.3") to 28 to DIL	SDP-UNIV 28 SO/300	AD-089
28 SSOP (0.2") to DIL	SDP-UNIV 28 SS/200	AD-090
48 TSOP 12x20 FLAS to DIL	SDP-UNIV-48 TS	AD-091
44 PSOP to DIL	SDP-UNIV-44 PSO	AD-092

OP-875-01

The OP-875-01 option allows to convert old PR-875 to **PR-875C**