The Dataman 40Pro is a PC based universal 40-pin programmer with ISP capabilities and USB 2.0 connectivity. The 40Pro is built to meet the demands of development labs and field engineers for universal and portable programming.

Dataman 40Pro is a small, fast and powerful programmer designed for a huge range of programmable devices. Using the built-in in-circuit serial programming (ISP) connector the programmer is able to program ISP capable chips in-circuit. 40Pro isn't only a programmer, but also a static RAMs tester.

Hardware

General

- 40 powerful TTL pindrivers provide H/L/pull_up/pull_down and read capability for each pin of socket. Advanced pindrivers incorporate high-quality high-speed circuitry to deliver signals without overshoot or ground bounce for all supported devices. Pin drivers operate down to 1.8V so you'll be ready to program the full range of today's advanced low-voltage devices

- The programmer performs device insertion tests and contact checks before it programs each device. These capabilities, supported by signature-byte check help prevent chip damage due to operator error

- 40Pro programmer performs programming verifications at the marginal level of supply voltage, which improves programming yield, and guarantees long data retention

- Various socket converters are available to handle device in PLCC, SOIC, SSOP, TSOP, TSSOP, TQFP, QFN (MLF) and other packages

Base Unit (DAC)

- Two D/A converters for VCCP and VPP, controllable rise and fall time
- VCCP range 2V..7V/350mA
- VPP range 2V..25V/200mA
- USB 2.0/1.1 compatible interface
- Auto calibration
- Self test capability

- Over 32,000 (April 2015) devices supported with new devices added monthly

- Intelligent pin drivers operate down to 1.8V so you'll be ready to program the full range of tomorrows advanced low-voltage devices

- ISP capable using the JTAG interface

- Hi-speed USB 2.0 connectivity

- Easy to use software compatible with the latest operating systems including Windows 8

- Comprehensive 3 years parts and labour warranty

- Free life-time software updates

ZIF Socket Pindriver

- 40-pin DIL ZIF (Zero Insertion Force) socket accepts both 300/600 mil devices up to 40-pins

- Pindrivers: 40 TTL pindrivers, specialized GND/VCC/VPP pindriver

- FPGA based TTL driver provides H, L, CLK, pull-up, pull-down on all pindriver pins; level H selectable from 1.8V up to 5V

- Continuity test: each pin is tested before every programming operation

ISP Connector

- 10-pin male type with miss insertion lock

- 5 TTL pindrivers, provides H, L, CLK, pull-up, pull-down; level H selectable from 1.8V up to 5V to handle all (low-voltage including) devices

- 1x VCCP voltage (range 2V..7V/100mA) (*1) and 1x VPP voltage (range 2V..25V/50mA)

- Programmed chip voltage (VCCP) with both source/sink capability and voltage sense

Software

User Interface

- Programmer is driven by an easy-to-use control program with pull-down menus, hot keys and on-line help. Selecting of the device is performed by class, manufacturer or simply by typing a fragment of vendor name and/or part number

- Standard device-related commands (read, blank check, program, verify, erase) are enhanced by some test functions (insertion test, signature-byte check), and some special functions (autoincrement)

- All known data formats are supported. Automatic file format detection and conversion during loading of file

- The rich-featured autoincrement function enables one to assign individual serial numbers to each programmed device - or simply increments a serial number. The function also enables one to read serial numbers or any programmed device identification signatures from a file

- The software also provides extensive information about programmable devices including detailed drawings of all available packages. The software also provides explanations of chip labelling (prefixes and suffixes) for each of the supported chips

- The software provides full information for ISP implementation: Description of ISP connector pins for the currently selected chip, recommended target design around in-circuit programmed chip and other necessary information

- Keeping your programmer software up to date can be a costly business with some programmers. Dataman offers completely FREE software updates whenever you need them. The latest software is always available from our website

The Dataman 40Pro supports over 32,000 (April 2015) of the most popular devices in use today - with future devices being added monthly.

Programmer (ZIF Socket)

- BI-PROM
- EPROM
- EEPROM
- EPLD
- CPAL
- GAL
- FLASH
- FPGA
- MACH
- MROM
- NVRAM
- PAL
- PEEL
- PLD
- MICROCONTROLLERS

Programmer (ISP Connector)

- Serial E(E)PROM
- MICROCONTROLLERS

Package Includes

- **Dataman 40Pro Universal ISP Programmer**
  Dimensions: 160 x 95 x 35mm (6.3 x 3.7 x 1.4inches)
  Weight: 0.5Kg (1.1lbs)

- Switching Power Adapter
  Operating voltage: 15-20V DC / max. 0.5A
  Power consumption: max. 6W active / approx. 1.4W sleep

- Moulded USB Cable

- ISP cable

- Diagnostic POD for self test of the programmer

- Anti-dust cover for ZIF socket

- User manual

- Software

- Optional range of adapters and socket converters also available

Warranty and Support

- 30 day money back guarantee* - If you don't like it, send it back

- Three year guarantee - Three years parts and labour warranty, on the 40Pro universal device programmer

- Life-Time Technical Support - 40Pro technical support is available free via our website and telephone helpdesk for life

- Life-Time Software Updates - 40Pro software updates are available free via our website for life

*Applies to orders from UK/US offices only

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