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## Galep-4

### Pocket Programmer

with 40 universal pin drivers

Conitec's new fourth generation **GALEP-4** is a professional field programmer of pocket-sized dimension. The new Galep supports EPROMs, EEPROMs, FLASH EPROMs, serial EEPROMs, Microcontrollers, GALs and PALCEs - handling up to DIP40 devices without requiring additional adapters or circuitry.

By using a highly integrated FPGA, GALEP's internal logic is made freely programmable and is automatically optimized for the selected component. This way all components can be both written and read at optimal speed.



### Powerful Software ↑

- > The Galep-4 OS features a comprehensive set of basic functions such as read, program, compare and delete, along with easy-to-use custom configuration options for any special functions required by the selected component.
- > The editor allows a multitude of functions for editing component contents which can be saved and loaded in binary, intel-hex, motorola-s or jedec file format.
- > Using the COM objects feature in the GALEP-4 OS, the user can also access the programmer from within their chosen software application (e.g. Visual Basic).

### Free Software Updates ↑

- > The Galep-4 software includes the ability to constantly incorporate support for additional devices, via free software updates offered on our website. We develop new components on a monthly basis, and any Galep-4 owner can implement these by downloading software updates from the internet. This feature allows the GALEP-4 to remain at the cutting edge of industry standards for years to come. This easy upgradeability effectively resists obsolescence. Galep owners have life-time free access to the updates.

### Security features ↑

- > Prior to each function, the GALEP-4 checks the electric selected device's electric consumption, as well as the correct positioning of the selected component. This reduces the risk of accidentally harming the component or the programmer to a minimum.

### Socket Adapters ↑

- > The GALEP-4 features a truly universal pin driver design. In contrast to such high end programmers as HILO's EMP-11, which only features a few universal pin drivers, the Galep-4 carries a separate universal pin-driver for each of the 40 socket pins. Therefore GALEP-4's pin driver design corresponds to that usually found in far more expensive programmers.

210841 - 44Pin DIL > 44Pin PPLCC adapter (EPROMs and MCUs)

210842 - 32Pin DIL > 32Pin PPLCC adapter (8-Bit EPROMs)

210843 - 28Pin DIL > 32Pin PPLCC adapter (8-Bit EPROMs)

210844 - 20Pin DIL > 20Pin PPLCC adapter (GALs and PALCEs)

210845 - 24Pin DIL > 28Pin PPLCC adapter (GALs and PALCEs)

210846 - 40Pin DIL > 44Pin SOP adapter (for FLASH memory)

- > Low-Voltage GALEP-4 pin drivers feature true level-shifters and

comparators, guaranteeing clean signals right down to 1.3 volts. The Galep-4 comparators allow measurement of the voltage on any of the 40 pins within a range of 0 to 25 volts with a precision of 100 mV. This can be used to precisely determine high and low levels at the component's output pins. Galep-4 consequently requires far fewer socket adapters than other high end programmers such as the ALL-11C/P.

> We do however develop and carry a comprehensive range of socket converters for different packaging formats.

#### State of the art design from Germany ↑

> By using a highly integrated FPGA, GALEP's internal logic is made freely programmable and is automatically optimized for the selected component. This way all components can be both written and read at optimal speed.

> Dual power: AC adapter or 6 rechargeable NiMH batteries (AAA).

> Socket converters available for most component packages

#### Support for low voltage devices ↑

> The Galep-4 supports low-voltage devices down to 1.3 volts.

#### Technical Specifications ↑

> Pocket-sized, ultra-portable format: only ca. 80 x 115 x 33 mm

> Programs 8-bit and 16-bit EEPROM's up to 8 MBit, normal and serial EEPROM's, Flash-EPROM's

> Programs GALs / PALCEs

> Also programs numerous micro-controllers, e.g. Atmel AVR, PICmicro, 8x51

> Easy PC printer port connection

> Automatic Split/shuffle function for 8-, 16- and 32-bit target systems

> Supports Hex, Jedec and Binary file formats

> Integrated hex and fusemap editor

> Software for Win95, Win98, ME, 2000, NT, XP, Vista

> Flexible pin driver technology allows new devices to be implemented via software monthly - providing permanently upgradeable hardware.

> Unlimited free software updates via internet

#### Windows OS versions supported ↑

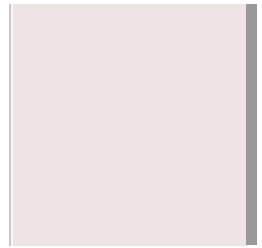
> Win95/ 98 /ME /NT4 /2000 /XP

#### Rechargeable internal power supply ↑

> Along with conventional external power, the GALEP-4 is configured for use in the field, with six NiMH rechargeable batteries, allowing up to 8 hours of continuous operation between charges. (AAA/600mAh) (batteries not included).

**System Requirements:** ↑

- > Pentium Processor
  - > 32-bit Windows OS (Win95/ 98 /ME /NT4 /2000 /XP)
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