

Peripheral Products.

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Perfect Power Peripheral Product Range.

Perfect Power Products.

All products are manufactured by Digital Data Systems (Pty) Ltd in Johannesburg, South Africa. Digital Data Systems is a proudly South African company being the holding company for the Perfect Power brand of products and we have been in business since 1972. With German engineers at the helm, you can expect quality at an affordable price with innovative features.

Perfect Power specializes in the design and manufacture of fuel injection systems for every application from your everyday street car to your high-tech performance car.

All our products are made to the highest international standards with our advanced production facilities. We strive in making our products better and better each time. We do offer our spare production capacity out to our clients and we also offer custom made OEM products that suit our client's requirements and budgets. Please inquire at info@ddsystems.co.za with OEM in the subject for more information.

Brought to you by dds.

The logo features a large, stylized white letter 'P' on a red background. To the right of the 'P', the words 'Perfect' and 'Power' are stacked in a bold, italicized, white sans-serif font.

All our products are assembled by SMT (Surface Mount Technology) machine and then computer tested against a go / fail test procedure. Only once they pass all the tests, then only do they enter into the next phase. All products are then heat soaked for a period of 24 hours and then re-tested to make sure there are no component failures. This process ensures that the product you buy will last forever and give you years of service.

All Perfect Power products are powerful "real time" programmable fuel injection and ignition computer systems. High speed communication is achieved from USB communication. LetRipp II tuning software is used to manage the tuning, in real time, with all of our modern tuning units. The software was designed with tuners in mind and has many features to assist in the chip tuning process. All our products have extensive help documentation, application notes, FAQ and manuals that will answer almost every question you might have. Email info@perfectpower.com for support.

The Perfect Power range of products falls into three major categories: Stand Alone Systems and "Piggy Back" or Add-on Systems and "Accessories and Peripherals".

Warranty.

Perfect Power unit(s) come with a 12 month warranty on the electronics, excluding the drivers, from shipment date. The warranty will fall away if:

- The unit(s) has / have been tampered with.
- The unit(s) has / have been abused, misused or incorrectly maintained.
- The unit(s) has / have been incorrectly installed.
- The unit(s) was / were not tested on receipt.

If the unit(s) was / were damaged in transit, then the dealer from whom the unit(s) was / were purchased, will replace it as soon as possible.

Please note that if the unit(s) has / have been working fine for a while and then fails, it could be because of one of the following:

- The unit(s) has / have been damaged in installation (not covered by warranty)
- One of the internal drivers has been destroyed (not covered by warranty)
- Malfunction of electronics (warranty claim)

The damaged unit(s) will need to be sent back to the factory, by your dealer, for inspection and a new unit(s) needs to be purchased to replace it. If the problem is a manufacturing fault, the cost of the unit(s) and shipping fees will be refunded. However, Perfect Power will not be held liable for the cost of removal, reinstallation, dyno time and mapping of the unit(s).

Perfect Power unit(s) need to be returned to your relevant dealer before any claims procedure can begin. PRS and SMT units CANNOT be repaired

DISCLAIMER

Under no circumstances will Perfect Power be held responsible for any incidental, indirect, specific or consequential damages arising from the use of the unit(s).

RETURNS

All returns need to be authorized in advance. Please contact us on +27 11 792 9805, or info@perfectpower.com for authorization.

Warranty.

Please return the goods to one of the following addresses:

For returns by post :

Digital Data Systems (Pty) Ltd
P O Box 1577 Bromhof
2154 South Africa

For returns by shipping company :

Digital Data Systems (Pty) Ltd
22 Arbeid Avenue
Strijdom Park, Randburg
South Africa

All returns must be sent prepaid and no collect shipments will be accepted. Please ensure the parcel for its full value. If we determine that we are at fault for the return, we will refund the shipping costs.

We cannot accept returns on custom ordered parts. We also cannot accept returns on used or installed parts, parts not in their original packaging, parts that are not in a resalable package and parts that have come into contact with oil, coolant or fuel.

Contact.

Email : Info@perfectpower.com
Tel : +27 11 791 5947
Fax : +27 11 792 9818
Physical Address : 22 Arbeid Avenue, Strijdom Park, Randburg, South Africa, 2194
Postal Address : P.O. Box 35872, Northcliff, Gauteng, South Africa, 2115



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Peak and Hold Unit

The XMS_PH is an injector driver for high current injectors with an impedance of less than 4 ohms. Peak and Hold (PH) drivers are required to drive these injectors in order to reduce the power consumption, which would otherwise heat the injectors, and evaporate the fuel. Actually the fuel starts boiling in the injectors, and gas is injected instead of a liquid, and the engine leans out. This can have disastrous effects.

Principle:

The injector is switched on with a very high (up to 12A) peak current. This assures that the injector 'opens', which is evident by the 'plinth' hitting the full open position (limit). This is normally achieved within 0.7 to 1.2MS. Then the injector current is switched off for a variable recovery time. This allows part of the peak energy to dissipate. Then the injector is operated with a variable PWM current, which reduces the effective current to about 0.8 to 1.5A. This is the holding current, which must be great enough to hold the injector open. Once the input pulse terminates, all the 'switches' open, the injector energy dissipates in a high voltage spike, and the injector closes very fast. Thus the injector is opened as fast as possible, and closed as fast as possible, with the minimum of electrical energy, and a minimum of heating. Low impedance injectors (with high flow rates) are meant to be operated with a peak and hold driver.

Applications:

- High power engines
- Low impedance injectors
- Fast injector operation
- Gas injection
- Converts normal injector drive to Peak & Hold
- Impedance conversion



Features

- 4 independent drivers
- Negative input drive signals with incorporated pull-ups
- Negative output drive
- Up to 12A output peak drive
- Able to set peak time
- Able to set hold current
- Able to set recovery time
- Three build-in set-ups for slow, medium and fast injectors
- RS232 communications port (PC software provided)
- High impedance OFF switch reduces off delay
- Optional external fuse
- 2 LED indications
- Short circuit protected, RED LED shows early output termination

- Small size
- To be installed in ambient airflow