Parker electronic modules PWD00A-400 for rail mounting are compact, easy to install and provide time-saving wiring by disconnectable terminals. The digital design of the circuit results in good accuracy and optimal adaption for proportional directional control valves by a comfortable interface program.

**Features**

The described electronic unit combines all necessary functions for the optimal operation of proportional directional control valves without position sensor (series D*FB, D*FW, 4DP*). The most important features are:

- Digital circuit design
- Four parameterizable preset recall channels
- Constant current control
- Differential input stage
- Status output
- Four-quadrant ramp function
- Enable input for solenoid driver
- Status indicator
- Parametering by serial interface RS-232C
- Connection by disconnectable terminals
- Compatible to the relevant European EMC standards
- Comfortable interface, see Parker freeware: [www.parker.com/euro_hcd → Services → Downloads](http://www.parker.com/euro_hcd)

**Block diagram**
## Technical data

<table>
<thead>
<tr>
<th>General</th>
<th>Model</th>
<th>Module package for snap-on mounting on EN 50022 rail</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Package material</td>
<td>Polycarbonate</td>
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<tr>
<td></td>
<td>Inflammability class</td>
<td>V2..V0 acc. UL 94</td>
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<tr>
<td></td>
<td>Installation position</td>
<td>Any</td>
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<tr>
<td></td>
<td>Ambient temperature range [°C]</td>
<td>-20...+60</td>
</tr>
<tr>
<td></td>
<td>Protection class</td>
<td>IP 20 acc. DIN 40050</td>
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<tr>
<td></td>
<td>Weight [g]</td>
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</tbody>
</table>

### Electrical

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>18...30, ripple &lt; 5% eff., surge free *</td>
<td>22 for 0.2 ms</td>
<td>2.0</td>
<td>2.5 A medium lag</td>
<td>+10...0...-10, ripple &lt; 0.01 % eff., surge free, Ri = 150 kOhm</td>
<td>0.025</td>
<td>30 for terminals 5 and 6 against PE (terminal 8)</td>
<td>0...5: Off / 8,5...30: On / Ri = 30 kOhm</td>
<td>0...5: Off / 8,5...30: On / Ri = 30 kOhm</td>
<td>0...0.5: Off / Us: On / rated max. 15 mA</td>
<td>0...100</td>
</tr>
<tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Min: 0...100</td>
</tr>
</tbody>
</table>

### Interface

- RS 232C, DSub 9p. male for null modem cable
- EN 50081-2, EN 50082-2

### Connection

- Screw terminals 0.2...2.5 mm², disconnectable

### Cable specification

- 16 overall braid shield for supply voltage and solenoids
- 20 overall braid shield for sensor and signal

### Cable length [m]

- 50

* If solenoids with a nominal voltage of 24V are connected, the supply voltage has to be raised to 29V.

## Ordering code

- **PWD**
- **00**
- **A**
- **400**
- **-**

- Electronic module directional control valves
- Position control universal
- Amplifier min/max adjustment accel/decel ramps command input
- Design series

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### Technical Data / Ordering Code

E-Module for Proportional Valves

Series PWD00A-400

Catalogue HY11-3500/UK

Parker Hannifin GmbH & Co. KG

Hydraulic Controls Division

Kaarst, Germany
Signal flow diagram

Dimensions

Dimensions:

- Width: 110 mm
- Height: 75 mm
- Depth: 45 mm
ProPxD interface program

The new ProPxD software permits comfortable parameter setting for the electronic module series PCD, PWD, PZD, PID and PWDXX.

Via the clearly arranged entry mask the parameters can be displayed and modified. Storage of complete parameter sets is possible as well as print-out or record as text file for further documentation. Stored parameter sets may be loaded anytime and transmitted to the electronic module in the same manner as the basic parameters which are available for all usable valve series. Inside the electronic a nonvolatile memory stores the data with the option for recalling or modification.

Features

- Comfortable editing of all parameters
- Depiction and documentation of parameter sets
- Storage and loading of optimized parameter adjustments
- Executable with all actual Windows® operating systems from Windows® 95 upwards
- Plain communication between PC and electronic via serial interface RS-323 and null modem cable
- Comfortable interface, see Parker freeware: www.parker.com/euro_hcd → Services → Downloads