

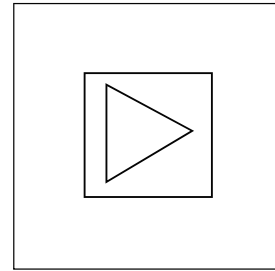
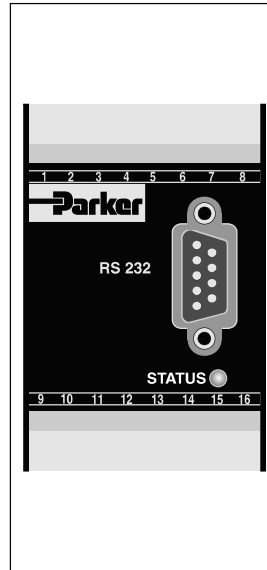
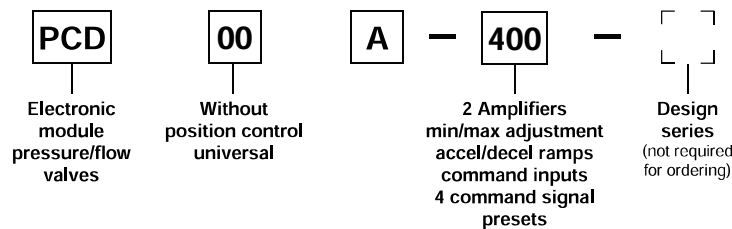
Parker electronic modules series PCD00A-400 for rail mounting are compact, easy to install and provide time-saving wiring by disconnectable terminals. The digital design of the circuit results in good accuracy and optimal adaption for proportional pressure/flow control valves by a comfortable interface program.

Features

The described electronic unit combines all necessary functions for the optimal operation of two proportional pressure/flow control valves (series R*V, RE*E*W, RE06M*W, DUR, PRPM, VBY, VMY, TDA, TEA).

The most important features are:

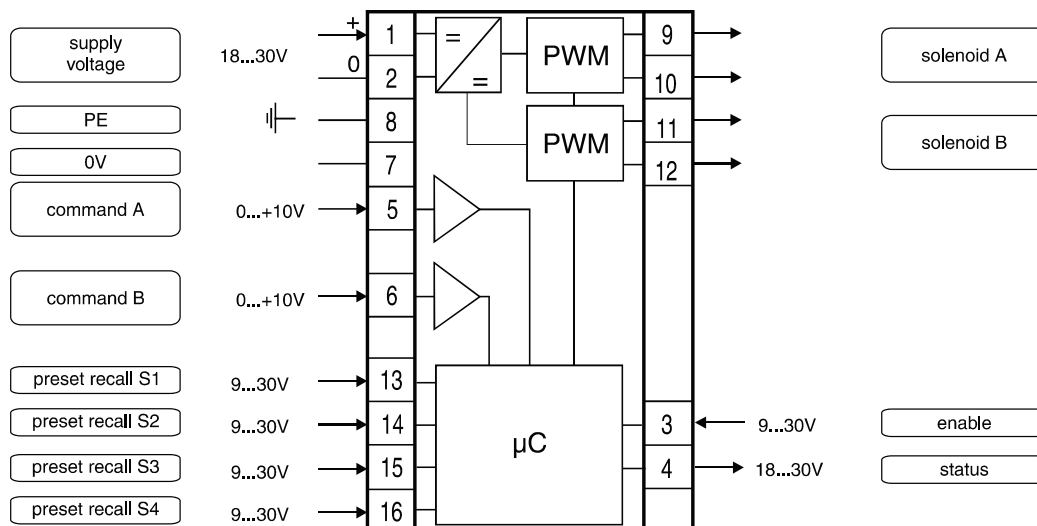
- Digital circuit design
- Two independent operable amplifiers
- Four parameterizable preset recall channels
- Constant current control
- Two input stages 0...10V
- Status output
- Two up/down ramp functions
- Enable input for solenoid driver
- Status indicator
- Parametering by serial interface RS232C
- Connection by disconnectable terminals
- Compatible to the relevant European EMC standards
- Comfortable PC user software, free of charge:
www.parker.com/euro_hcd
 – see "Support"


Ordering code


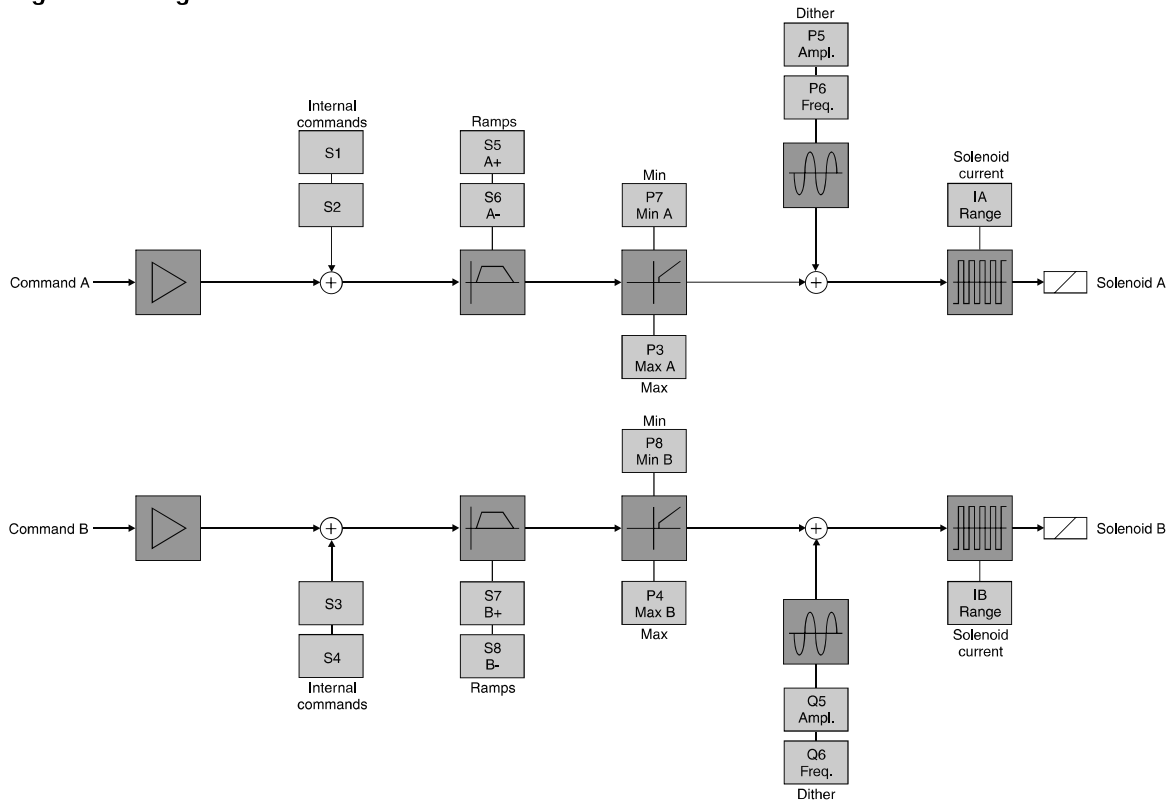
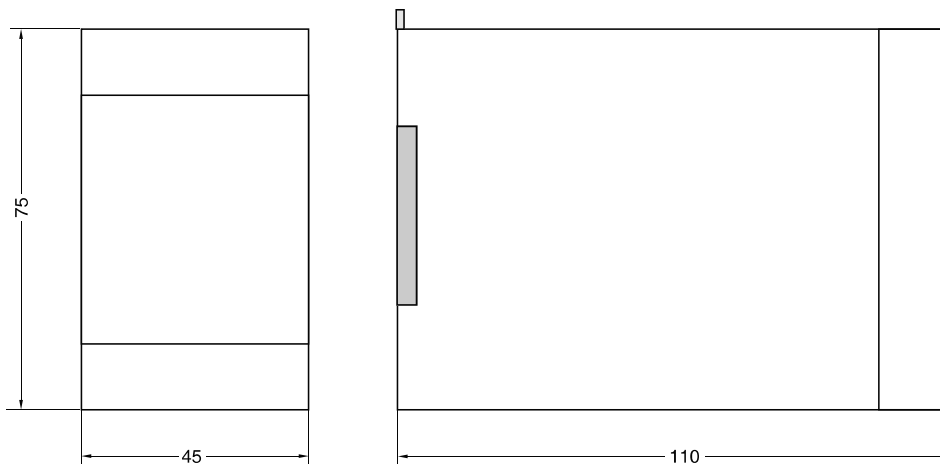
Technical Data / Block Diagram
Technical data

General	
Model	Module package for snap-on mounting on EN 50022 rail
Package material	Polycarbonate
Inflammability class	V0 acc. UL 94
Installation position	Any
Ambient temperature range	[°C] -20...+60
Protection class	IP 20 acc. EN 60529
MTTF _D value	[years] 150
Weight	[g] 160
Electrical	
Duty ratio	[%] 100
Supply voltage	[VDC] 18...30, ripple < 5% eff., surge free *
Current consumption max.	[A] 5.0
Pre-fusing	[A] 6.3 A medium lag
Command signal	[V] 0...+10, ripple < 0.01 % eff., surge free, Ri = 150 kOhm
Input signal resolution	[%] 0.025
Differential input voltage max.	[V] 30 for terminals 5 und 6 against PE (terminal 8)
Enable signal	[V] 0...4.0: Off / 9.0...30: On / Ri = 30 kOhm
Channel recall signal	[V] 0...4.0: Off / 9.0...30: On / Ri = 30 kOhm
Status signal	[V] 0...0.5: Off / Us: On / rated max, 15 mA
Adjustment ranges	
Min	[%] 0...50
Max	[%] 50...100
Ramp	[s] 0...32.5
Current	[A] 0.8/1.3/1.8/2.7/3.5
Interface	RS 232C, DSub 9p, male for null modem cable
EMC	EN 50081-2, EN 50082-2
Connection	Screw terminals 0.2...2.5 mm ² , disconnectable
Cable specification	[AWG] 16 overall braid shield for supply voltage and solenoids
	[AWG] 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.

Block diagram


PCD00A UK.INDD RH 06.09.2011

Signal flow diagram

Dimensions


PCD00A UK.INDD RH 06.09.2011



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 RS232C and null modem cable
- Comfortable PC user software, free of charge: www.parker.com/euro_hcd – see "Support"

