

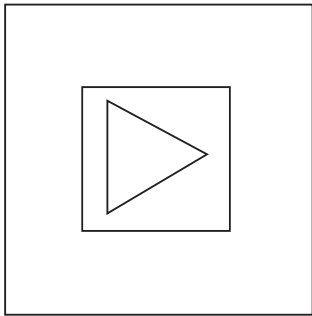
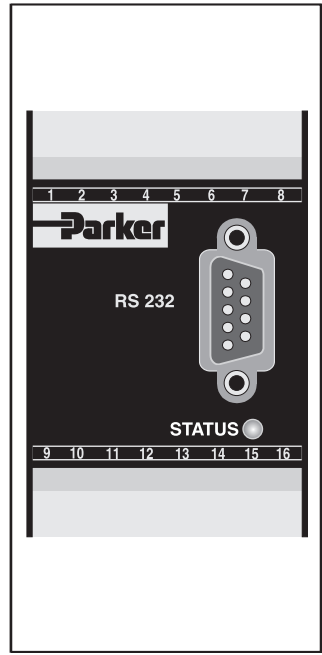
**General Description**

Parker electronic modules PID00A-40\* 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 closed loop controls by a comfortable interface program.

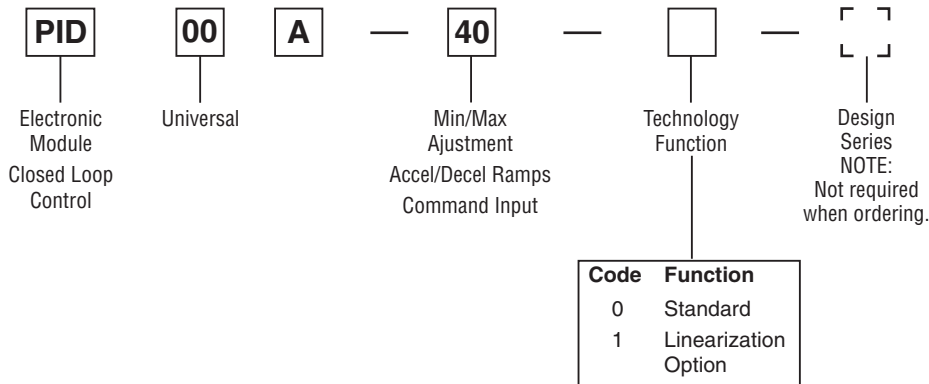
**Features**

The described electronic unit combines all necessary functions for the optimal operation of closed loop controls. The most important features are:

- Extended PID controls.
- Speed control with position feedback.
- Differential input stage with different signal options.
- Output stage with different output options.
- Four-quadrant ramp function.
- Status indicator.
- Digital circuit design.
- Parametering by serial interface RS-232.
- Connection by disconnectable terminals.
- Compatible to the relevant European EMC standards.
- Optional technology function "linearization"
- Simple to use interface program.



**Ordering Information**



**WARNING:** This product can expose you to chemicals including Lead, Nickel (Metallic), or 1,3-Butadiene which are known to the State of California to cause cancer, and Lead or 1,3-Butadiene which is known to the State of California to cause birth defects and other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).  
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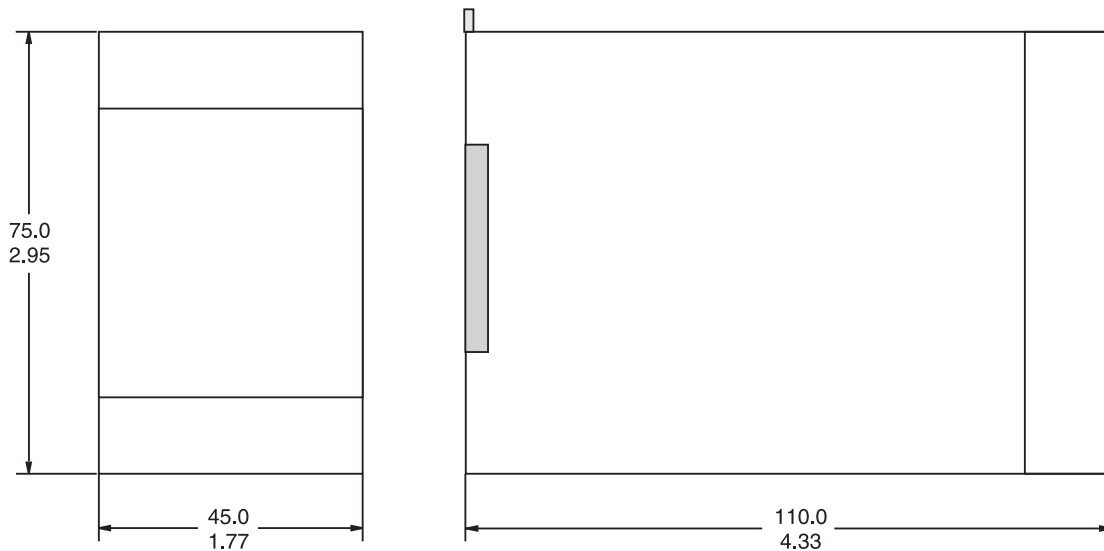
**Specifications**

General		Electrical (cont.)	
<b>Model</b>	Module package for snap-on mounting on EN 50022 rail	<b>Input Signal Resolution</b>	0.025 %
<b>Package Material</b>	Polycarbonate	<b>Differential Input Voltage Max.</b>	30 V for terminals 5 and 6 against PE (terminal 8)
<b>Inflammability Class</b>	V2...V0 acc. UL 94	<b>Enable Signal</b>	0...2.5 V: OFF / 5...30 V: ON Ri = 100 kOhm
<b>Mounting Position</b>	Any	<b>Status Signal</b>	0...0.5 V: OFF / Us: ON rated 15 mA maximum
<b>Ambient Temperature</b>	-20°C to +60°C (-4°F to +140°F)	<b>Monitor Signal</b>	+10...0...-10 V, rated 5 mA max., signal resolution 0.4%
<b>Protection Class</b>	IP 20 acc. DIN 40050	<b>Adjustment Ranges</b>	Minimum: 0...50 % Maximum: 50...100% Ramp: 0...32.5 s Zero Offset +100%...-100%
<b>Weight</b>	0.16 kg (0.35 lbs.)	<b>Interface</b>	RS 232C, DSub 9p. male for null modem cable
Electrical		<b>EMC</b>	EN 50081-2, EN 50082-2
<b>Duty Ratio</b>	100%	<b>Connection</b>	Screw Terminals 0.2...2.5 mm <sup>2</sup> , disconnectable
<b>Supply Voltage</b>	18...30 VDC, ripple <5% eff., surge free	<b>Cable Specification</b>	20 AWG overall braid shield
<b>Current Consumption Max.</b>	100 mA	<b>Cable Length</b>	50 m (164 ft.)
<b>Pre-fusing</b>	500 mA	Options	
<b>Command Signal Options</b>	+10...0...-10 V, ripple <0.01 eff., surge free, Ri = 100 kOhm +20...0...-20 mA, ripple <0.01 eff., surge free, Ri = 200 kOhm 4...12...20 mA, ripple <0.01 eff., surge free, Ri = 200 kOhm <3.6 mA = solenoid output OFF, <3.8 mA = solenoid output ON, (acc. NAMUR NE43)	<b>Technology Function</b>	Code 1: Software adjustable transfer function with 10 compensation points for linearization of valve behavior

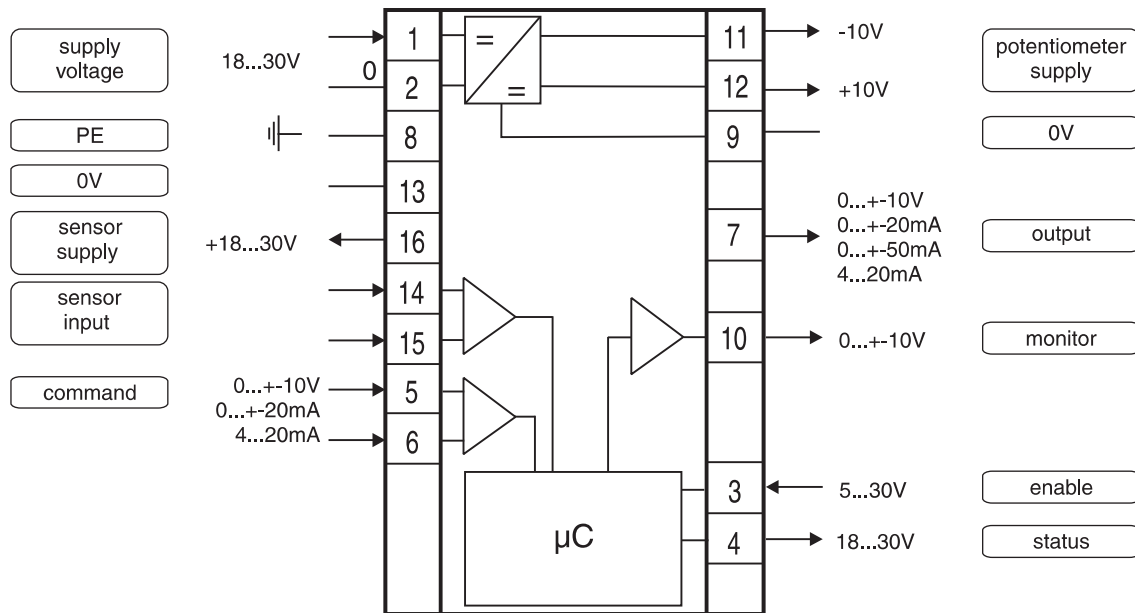
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**Dimensions**

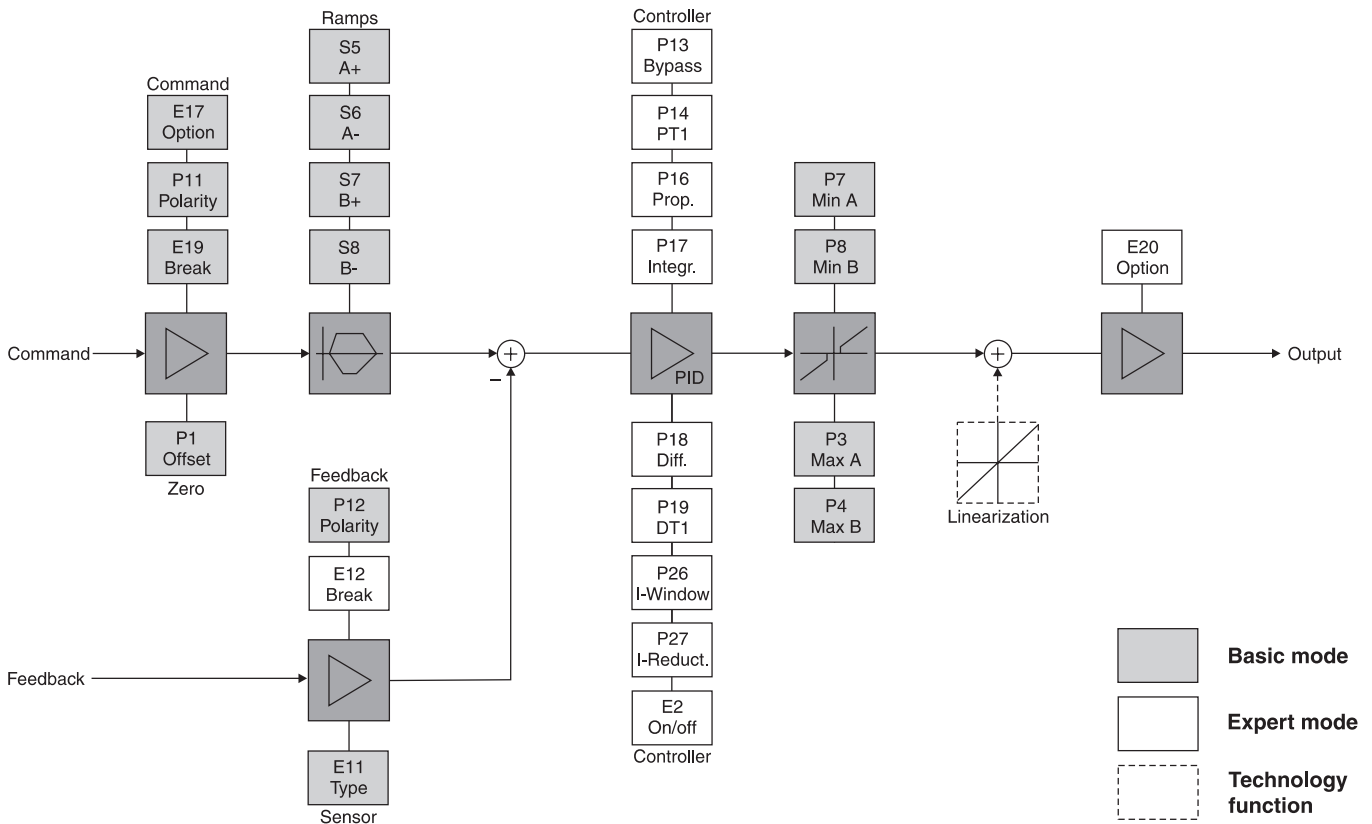
Inch equivalents for millimeter dimensions are shown in (\*\*)



**Block Diagram — Wiring**



**Signal Flow Diagram**



## ProPxD Interface Program

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

Via the clearly arranged entry mask the parameters can be noticed and modified. Storage of complete parameter sets to floppy or hard disk is possible as well as printout or record as a 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

- User-friendly editing of all parameters.
- Storage and loading of optimized parameter adjustments.
- Executable with all Windows® operating systems from Windows® 95 upwards.
- Communication between PC and electronic via serial interface RS-232 and null modem cable.
- Simple to use interface program. Download free of charge [www.parker.com/euro\\_hcd](http://www.parker.com/euro_hcd) → **Services** → **downloads**

**D**

No.	Value	Description	Module
E17	1	Command Input (see Installation man)	1
E19	0	cable break detection cmd in 1= active(4...20mA)	0
E11	15	Type of feedback transducer (see Installation man)	15
P20	100 0	feedback scale [%]	100 0
E12	0	cable break detection fdb 1= active	0
E20	1	Command Output (see Installation man)	1
P3	100 0	Max [%] A-channel	100 0
P4	100 0	Max [%] B-channel	100 0
P7	0 0	Min [%] A-channel	0 0
P8	0 0	Min [%] B-channel	0 0
S5	0	ramp up [ms] A	0
S6	0	ramp down [ms] A	0
S7	0	ramp up [ms] B	0
S8	0	ramp down [ms] B	0
E8		Ramp 0=const time,1=const. rise rate, 2=1/e-fun	
E2	0	Operating mode 0=Open loop, 1=closed, 2=extern	0
P11	0	command signal 0=not inverted, 1=inverted	0
P12	0	Feedbackvalue 0=not inverted; 1=inverted	0
P29	0	command output signal 0=not inverted; 1=inverted	0
P13	50 0	bypass gain [%]	50 0
P14	0 0	T-portion of PT1-element	0 0
P16	4 0	P-gain	4 0
P17	10 0	I-gain	10 0
P18	0 0	D-gain	0 0
P19	0 0	T-portion of DT1-element	0 0
P26	200 0	Window for I-gain activation [%]	200 0