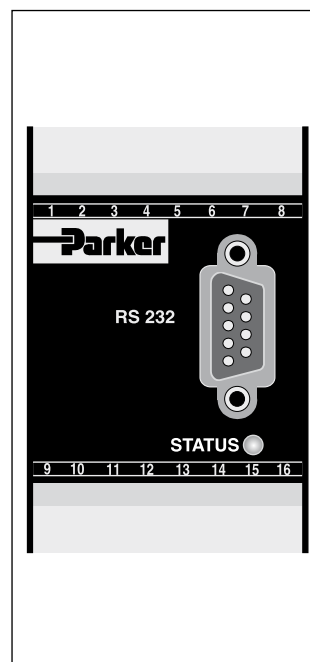
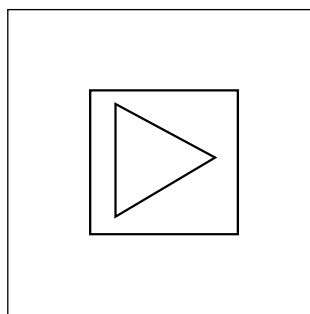


Parker electronic modules PID00A-40* for rail mounting are compact, easy to install and provide time-saving wiring by disconnectable terminals. The digital design of the circuit results in good accuracy and optimal adaption for closed loop controls by a comfortable interface program.

Features

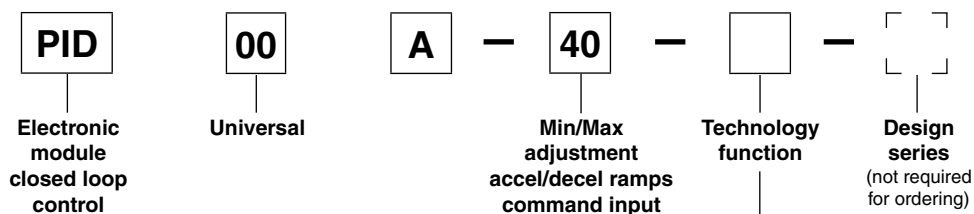
The described electronic unit combines all necessary functions for the optimal operation of closed loop controls. The most important features are:

- 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 RS232C
- Connection by disconnectable terminals
- Compatible to the relevant European EMC standards
- Optional technology function "linearization"
- Comfortable PC user software, free of charge:
www.parker.com/euro_hcd - see "Support", or directly at www.parker.com/propxd.



Ordering code

11

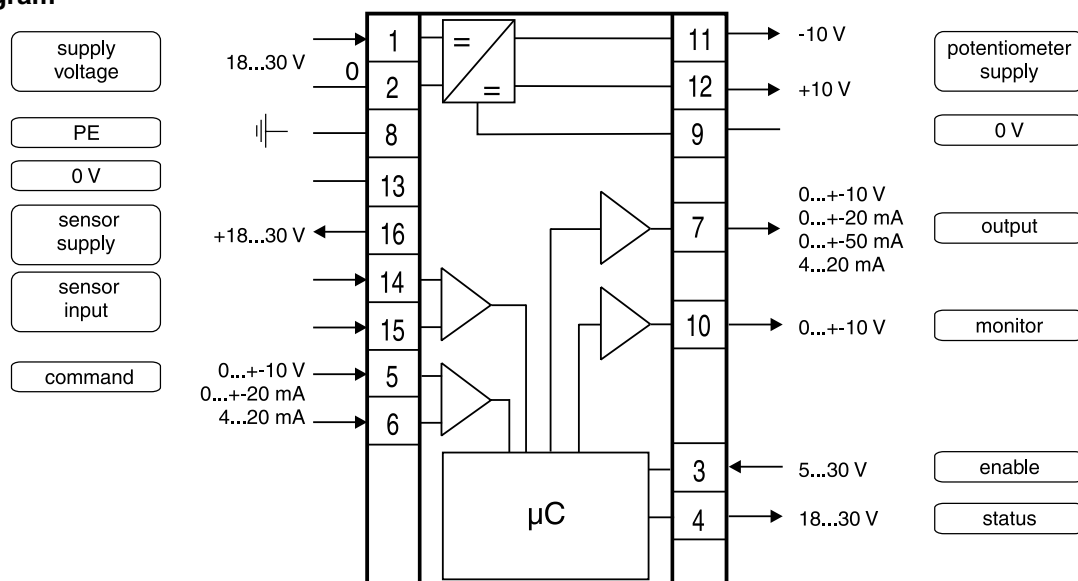


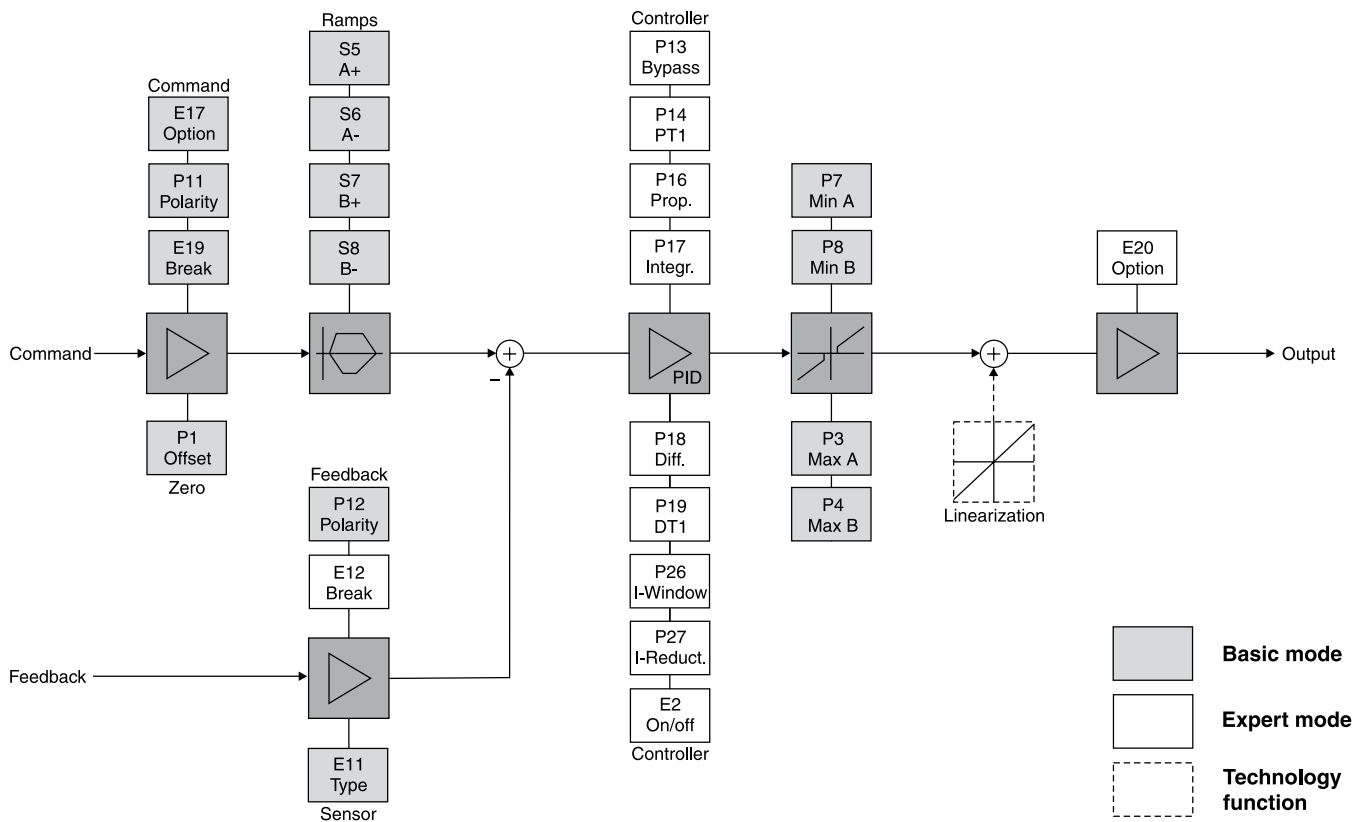
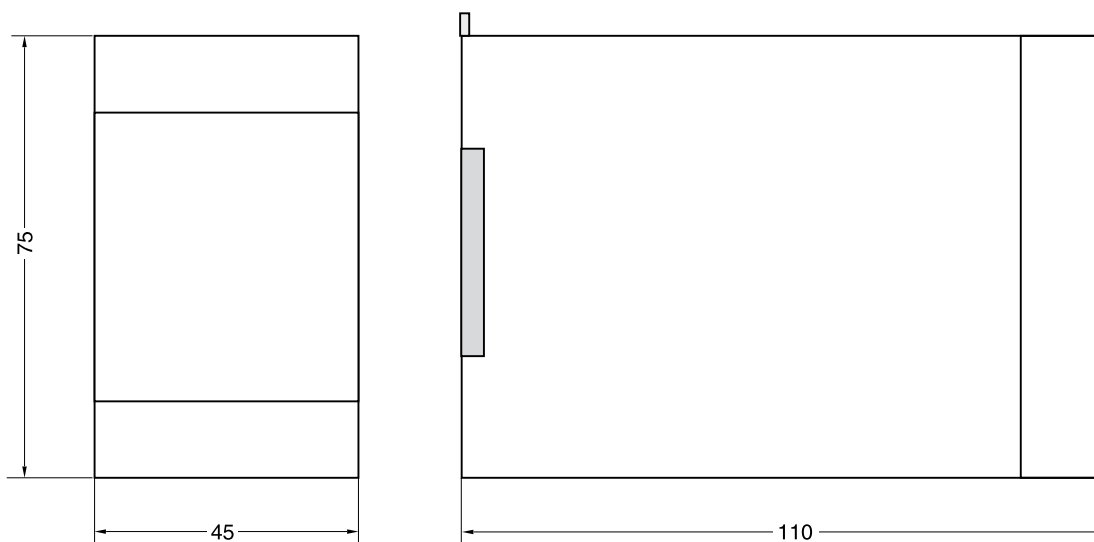
Code	Function
0	Standard
1	Linearization option

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		unrestricted	
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.		[mA]	100
Pre-fusing		[mA]	500
Command signal options		[V]	+10...0...-10, ripple <0.01 % eff., surge free, Ri = 100 kOhm
		[mA]	+20...0...-20, ripple <0.01 % eff., surge free, Ri = 200 Ohm
		[mA]	4...12...20, ripple <0.01 % eff., surge free, Ri = 200 Ohm
			<3.6 mA = solenoid output off, >3.8 mA = solenoid output on (acc. NAMUR NE43)
Input signal resolution		[%]	0.025
Differential input voltage max.		[V]	30 for terminals 5 und 6 against PE (terminal 8)
Enable signal		[V]	0...1: Off / 5...30: On / Ri = 100 kOhm
Status signal		[V]	0...0.5: Off / Us: On / rated max. 15 mA
Monitor signal		[V]	+10...0...-10, rated max. 5 mA, signal resolution 0.4 %
Output signal options		[V]	+10...0...-10, rated max. 15 mA
		[mA]	+20...0...-20, Ro < 500 Ohm
		[mA]	+50...0...-50, Ro < 200 Ohm
		[mA]	4...12...20, Ro < 500 Ohm
Output signal resolution		[%]	0.025
Potentiometer supply		[V]	+10...0...-10 2 %, rated max. 15 mA
Sensor supply		[V]	18...30 (Us), rated max. 100 mA
Adjustment ranges		Min	[%] 0...50
		Max	[%] 50...100
		Ramp	[s] 0...32.5
		Zero offset	[%] +100...-100
Interface		RS 232C, DSub 9pole male for null modem cable	
EMC		EN 50081-2, EN 50082-2	
Connection		Screw terminals 0.2...2.5 mm², disconnectable	
Cable specification		[mm²]	0.5 overall braid shield (AWG20)
Cable length		[m]	50
Options			
Technology function		Code1	Software adjustable transfer function with 10 compensation points for linearization of valve behaviour

Block diagram



Signal flow diagram**Dimensions**

ProPxD interface program

The ProPxD software permits comfortable parameter setting for the module electronics. Via the clearly arranged entry mask the parameters can be monitored and modified. Storage of complete parameter sets 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 other valves. Inside the electronics a nonvolatile memory stores the data with the option for recalling or modification.

The PC software can be downloaded free of charge at www.parker.com/euro_hcd – see page "Support" or directly at www.parker.com/propxd.

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® XP upwards
- Plain communication between PC and electronics via serial interface RS232C

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-func	
E2	0	Operating mode 0=Open loop; 1=closed; 2=extern	0
P11	0	command signal 0=not inverted; 1=inverted	0
P12	0	Feedback value 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