

Electronic Digital Amplifier PVR2

...for optimal control of HOERBIGER proportional valves


HOERBIGER
because performance counts



Well prepared for any requirements...



Pict.: Electronic Digital Amplifier PVR2
Dimensions: S x H x D: 22,5 x 99 x 114,5

Optimal addition for HOERBIGER proportional control valves:

- Activation of all functions for optimum valve control are done by inputting codes with one digit
- User specific solutions are easily accomplished by adjustment of the software, e.g. field bus coupling
- Complete data exchange for parameter setup and diagnosis with RS232-Interface
- Snap-on-housing allows mounting on rail

The electronic digital amplifier PVR2 was particularly designed for HOERBIGER proportional technology and is the interface between machine control and proportional hydraulic system.

System relevant performance criterias for hydraulic like pressure control and position control are implemented in the PVR2.

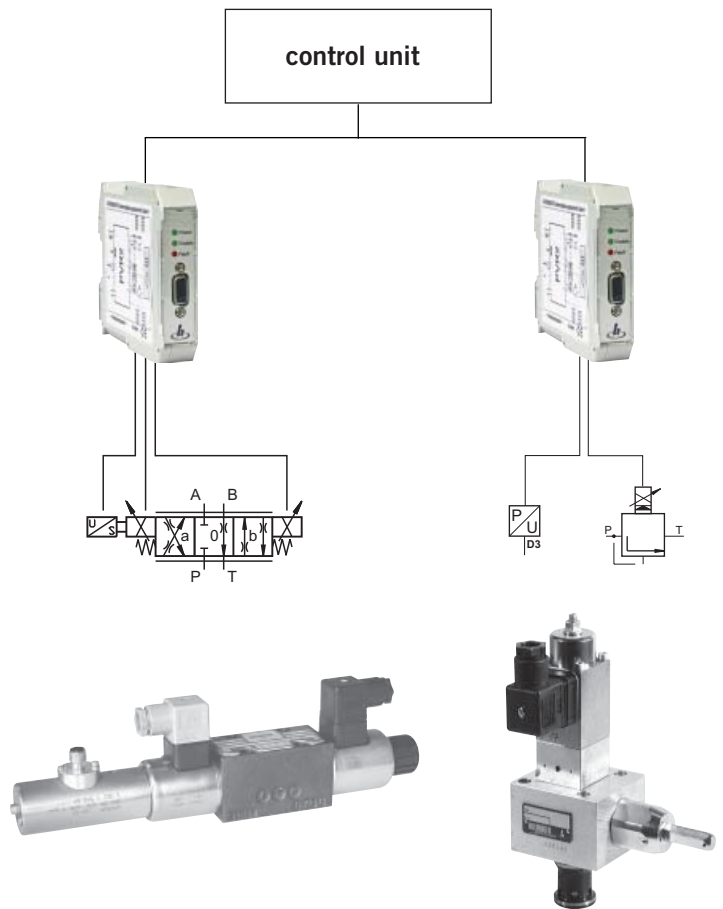
The electronic amplifier is designed for controlling proportional control valves. A combination of one or two pulse-width actuating signals with one setting value and one status signal can be produced via individually developed firmware. Thus it is possible to carry out the controlling and regulation of particular applications, e.g. for proportional directional valves or proportional pressure valves. The required parameterisation for this is deposited in an internal fail-safe memory.

All safety-relevant internal conditions are monitored and made accessible to the user via suitable error information. Special solutions are available on request, which are programmed according to customer's demands. Communication with the amplifier takes place over an RS232 interface. This communication, as well as the selection of the attached valve types, makes complete parameterisation and diagnosis possible. The interface to the superior controller is made via the existing setting value signals and status signals. The assembly should normally be carried out on a NS35/7,5 mounting rail according to the standard DIN50022.



Selected technical data:

Protection class:	IP 20 (EN 60529)
Operating temperature:	0 ... +55°C
Duty cycle:	100%
CE-guidelines:	89/336/EWG
EMV-interference resistance:	EN 61000-6-2
EMV-transient emissions:	EN 61000-6-4
Solder joints	lead free
Housing	DIN rail housing ME MAX (Phoenix contact)
Power supply:	18V DC ... 32V DC
Analog inputs:	
1 x set value valve	+/- 10V DC 10 Bit solution
1 x actual value valve	0 ... 12V DC 10 Bit solution
Analog outputs:	
2 x magnetic system	PWM-output H-bridge I _{max} = 3A
Digital inputs:	
1 x ENABLE	potential-free
Digital outputs:	
1 x FAULT	with potential
Displays:	
POWER	LED gn
ENABLE	LED gn
FAULT	LED rt
User interface	RS232 socket



*Example of use:
controlling of HOERBIGER proportional control valves*

Precision and productivity by optimal valve control

- particularly designed for HOERBIGER proportional control valves

HOERBIGER - the technology group

With forward-looking ideas and innovative technologies as well as first-rate products and services, we are always within reach for our customers.

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vehicles and machine tools, as well as components and systems for shift and clutch operations in vehicle drive trains of all kinds. Through innovations in attractive technological niche markets, the HOERBIGER Group sets standards and creates high-quality unique selling propositions for the long-term benefit of its customers.



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