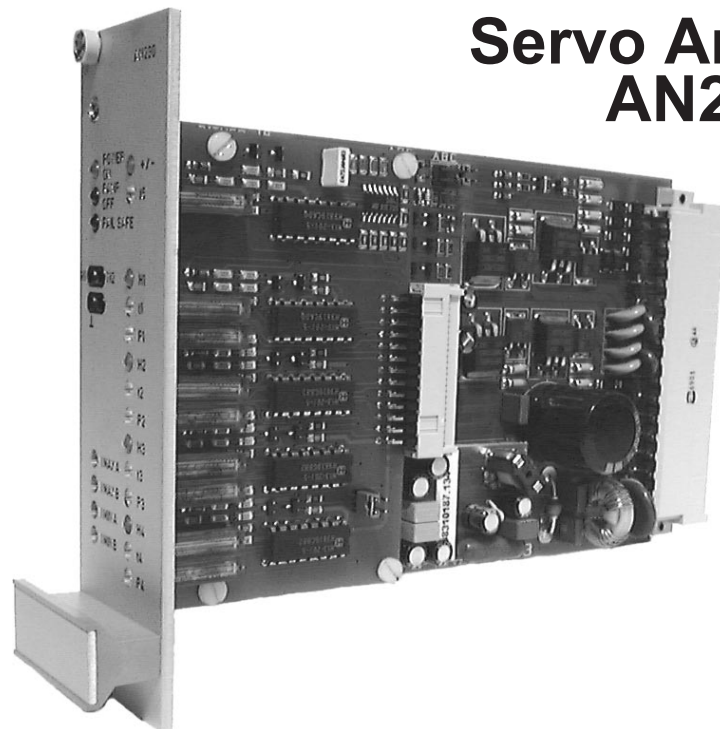


## Servo Amplifier AN230

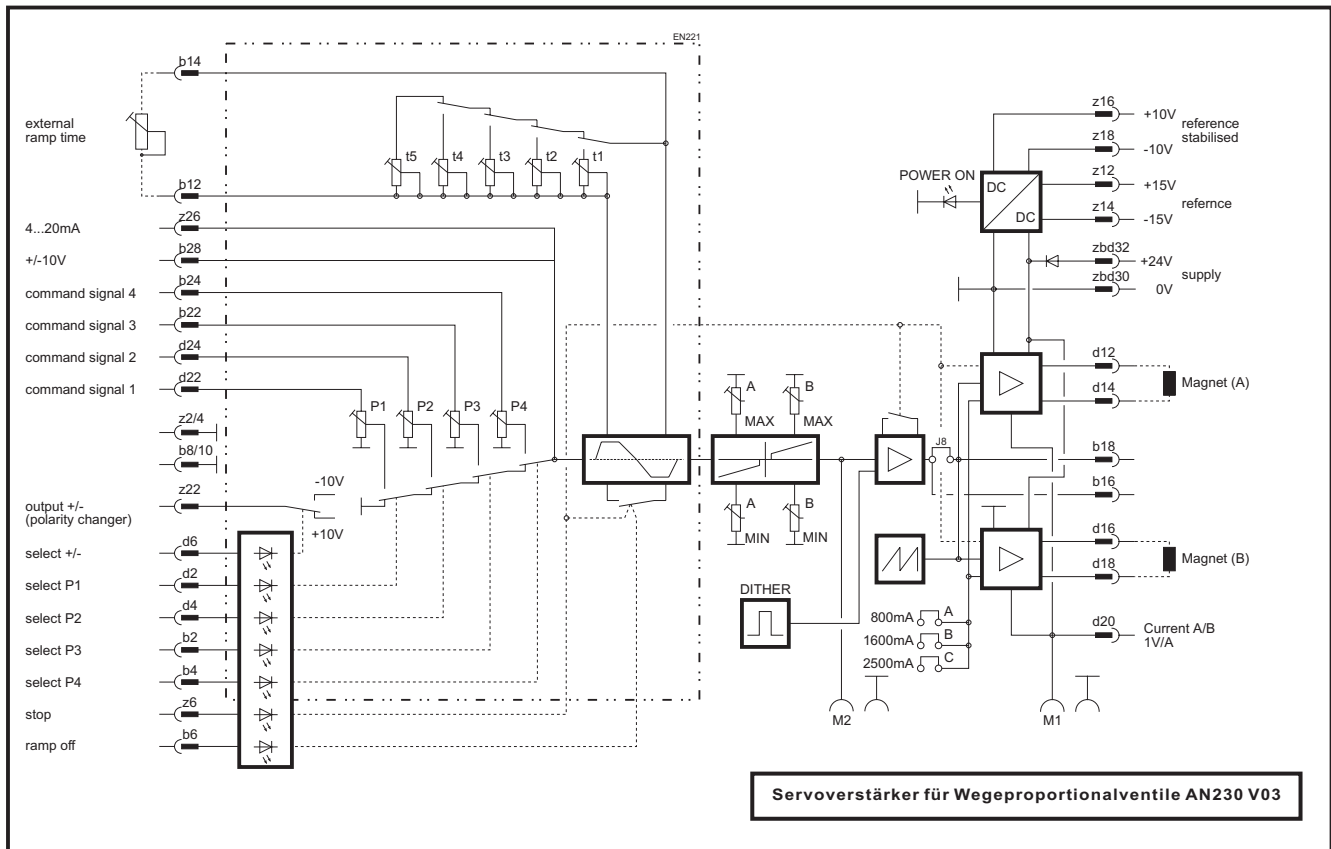


**The AN 230 was especially designed as a amplifier to control propotional valves without position feedback combined with the possibility to get the command signals direct from the amplifier. Hereby the command signals can be used as fixed values or together with an external potentiometer. Each of the command signals are related to a ramp, so that there are the possibility to create in an easy way a driving profile**

### Features:

- reduced power loss, short circuit protected, high dynamic PWM output stages with fast de-excitation
- variable output current by changing jumpers up to 800, or 1600, or 2500 mA
- internal adjustable current limiter
- protected against wrong polarity
- 4 adjustable command signals
- 5 adjustable ramp times ( 4 x command signal ramps, 1 x zero ramp )
- 2 external command signal inputs (4...20mA,  $\pm 10V$ )
- external ramp disable
- ramp time 0,1s to 10 s
- external enable
- LED indications for 'power on', 'ramp off', 'fail safe', 'polarity changer +/-', command signal selection 'H1', 'H2', 'H3', 'H4'
- front panel potentiometer to adjust command signal, ramp time, valve overlap and offset

# Servo Amplifier AN230



## Technical data:

Dimensions (overall dim.)	Eurocard format (160x100)mm (40.5x128.7x189.7)mm (WxHxD) Front plate 3HU x 8SU	Dither	ca. 120 Hz, not adjustable Amplitude internal adjustable, ca. 0...20% of the nominal current
Blade connector	48 pins DIN 41612 F48	Ramp times	separate adjustable for each command signal; 0,1...10s ±20%
Power supply	24V DC (22...35V DC)	Ramp off	+ 24V, 10 kΩ Indicated by LED <b>ramp off</b>
Auxiliary voltage	±10V, 10 mA stabilised ±15V, 25 mA unstabilised	Enable	Normally closed circuit Input voltage 24V, 10kΩ indicated by LED <b>fail safe</b>
Output current	$I_{ma} = 2500$ mA (in 3 ranges selectable ) 0..800 mA, 0..1600 mA, 0..2500 mA	Polarity changer	output ± 10 V ( + 24V, 10 kΩ ) indicated by LED <b>Abruf +/-</b>
Short circuit protection for the output stages		Test jacks	M1 Valve current equivalent 1V=1A (±5%) M2 Command signal ±10V
Minimum current	ca. 0...40% of the selected output current, adjustable with potentiometer		
Maximum current	ca. 0...100% of the selected output current, adjustable with potentiometer		
Signal inputs	1 x 4...20 mA, 100Ω, (12 mA centre current) 1 x ±10V, extern, 10kΩ / V 4 x ±10V, command signal		