AN237 Servo Amplifier

The amplifier AN237 was developed to control proportional valves in a closed-loop control.

The AN236 is used as a basic unit. By connecting a special module it is possible to drive the AN236 as the AN237 together with positioning controlled proportional valves.

Special features:

- Reverse-polarity-proof
- Short-circuit proof
- Ramp can be externally deactivated
- Ramp with square-wave detection function
- Extended ramp setting range
- External Enable (normally open circuit)
- Power-supply minus potential is identical to the zero potential of the inputs and the zero potential of the reference voltage, making it possible to operate multiple servo-amplifiers from a common power supply.
- High-dynamics PWM end stages
- Various inputs for the most widely used input voltages
  1x ±10V; 1x selectable. The inputs can, in addition, also be used in differential mode.
- LED displays for 'Power on', 'Ramp off', 'Fail safe'
- Potentiometer for ramps and pump modulation mounted on front panel
- Monitoring of position sensors

PEES
COMPONENTS

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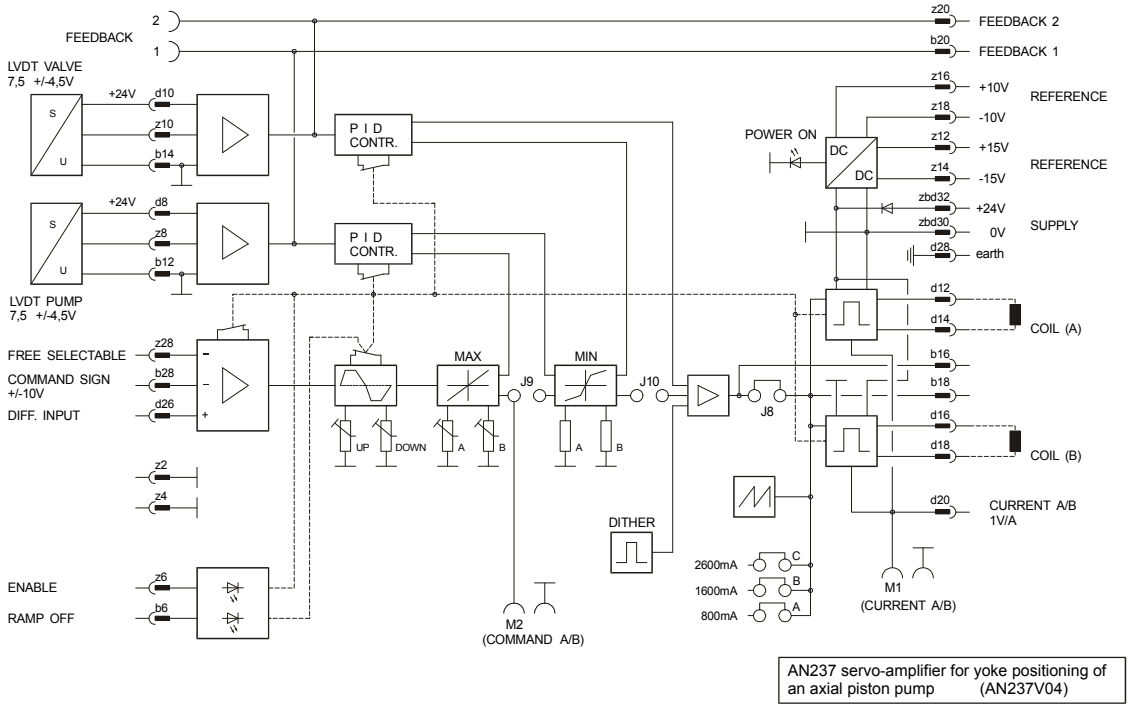

Technical Data:

Dimensions (overall dim.)	Eurocard format (160x100)mm (40.5x128.7x189.7)mm (WxHxD), Front plate 3HUx8SU
Connection	48 pin connector DIN 41612 F48
Supply voltage	24V DC (20–32V DC)
Reference voltages	±10V, 10mA, stabilised ±15V, 25mA, unstabilised
Output current	Imax = 2600 mA, 3 plug-selectable ranges: (0–800mA, 0–1600mA, 0–2600mA)
PWM frequency	Approx. 5.5 kHz
Short-circuit protection	for output stage and reference voltages
Signal inputs	1x ±10V, 100kΩ 1x user selectable 10kΩ/V
Dither	130 Hz Adjustable amplitude, approx. 0–10% of rated current.
Ramp times	Ramp up/down independently adjustable, 0.2–10sec 20%
Ramp off	Input voltage 24V, 10kΩ, Indication by LED 'Ramp off'
Stop	Normally closed circuit, Input voltage 24V, 10kΩ Indication by LED 'Fail safe'
Measurement sockets (ø 2 mm)	VALVE CURRENT: 1V = 1A, ±8%, COMMAND SIG: desired signal ±10V depends on the input voltage FEEDBACK: displacement pick-up signal ± 5V