PEES
COMPONENTS

AN238 Servo Amplifier

The AN238 servo amplifier has been designed for the control of axial piston pumps valves in conjunction with servo valves.
The module can be used as a pressure controller (zero stroke pump) or a volumetric flow controller by changing jumpers.

Features:

- linear output stage
- protected against wrong polarity
- different inputs for the most common input voltages. 1 user-selectable input (10kΩ/V), 1 ±10V differential input
- ramp can be disabled externally
- quadrant-sensitive ramp with wide range of adjustment (0.2...10sec)
- external enable (normally closed circuit)
- external controller enable
- adjustable pressure controller
- LED indicators for 'Power on', 'Ramp off', 'Fail safe', 'Ctrl on'
- potentiometers on the front plate for setting ramp times, Qmax and controller P and I components
- monitoring of pressure sensor and angular resolver on pump yoke
- logic output for malfunctions

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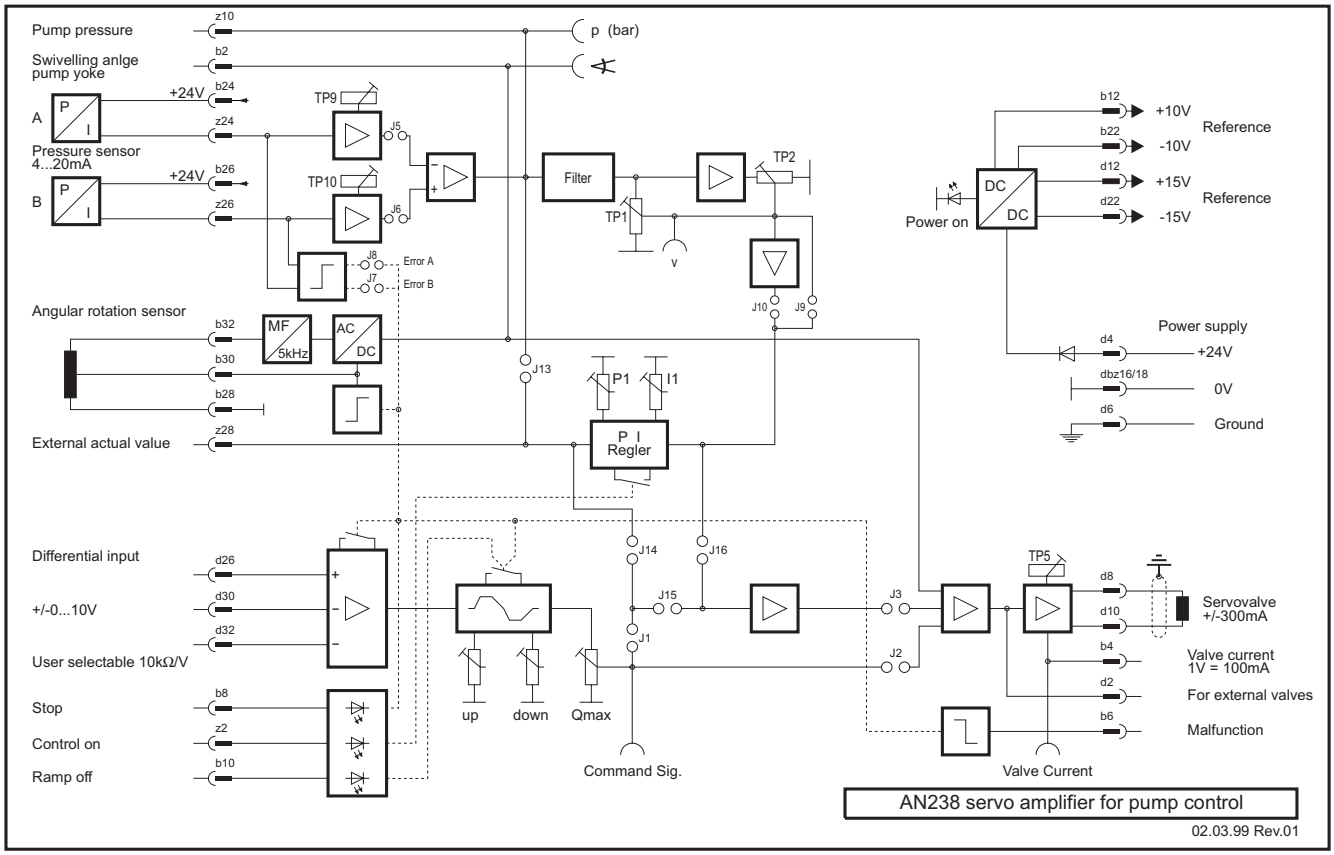

Technical data:

Dimensions (overall dim.)	Eurocard format (160x100)mm (40.5x128.7x189.7)mm (WxHxD) Front plate 3HUx8SU
Connection	48 pole connector DIN 41612 F48
Supply voltage	24V DC (20...32V DC)
Auxiliary voltages	±10V, 20mA, stabilised ±15V, 50mA, unstabilised approx. +24V, 80mA unstabilised
Output current	Imax = ±300 mA
Short-circuit protection for reference voltages	
Inputs	2x actual pressure 4...20 mA 1x actual value ±5V
Pump yoke	Angular resolver (inductive or resistive), approx. 5kHz, evaluated directly by the module
Signal inputs	1x ±10V, 100kΩ 1x user selectable R201, 10kΩ/V 1x differential input
Dither	Factory setting approx. 200Hz. Amplitude fixed, approx. 10% of rated current.
Ramp times	Ramp up/down independently adjustable, 0.2...10sec 20%
Ramp off	Input voltage 24V, 10kΩ Indication via 'Ramp off' LED
Enable	Normally closed circuit Input voltage 24V, 10kΩ Indication via 'Fail safe' LED
Measurement sockets	Valve current 1V = approx. 100mA Command signal ±10V Pressure: system dependent Torque: system dependent Slewing angle: system dependent