

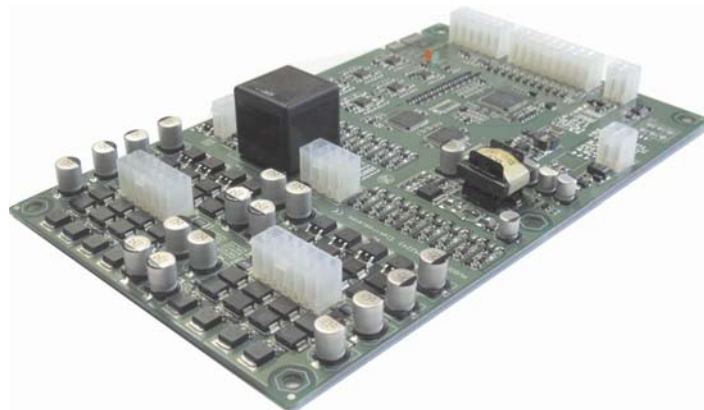


# elektrosistem



## HYDRAULIC VALVES CONTROL SYSTEM

### HVS




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#### FEATURES

The HVS card is a microprocessor aided electronic system designed to control hydraulic proportional valves, with single or double solenoid, on/off directional valves, dump valves in hydraulic systems, for 12V or 24V applications.

The system can be used to control up to 8 valves according to the current or voltage supplied; valves can be controlled by analogue signals or On/Off signals.

One auxiliary output can be used to enable On/Off operation of the dump valve or compressor bypass valve to dump the oil pressure in the hydraulic system or can be configured as pwm control.

Min and max current and time to reach the desired value (ramp) can be configured for each valve. For double effect valves, parameters can be set separately for each effect, or the values set for side A can be repeated for side B of the valve.

Typical applications include hydraulic options in a lift truck like lifting, tilting, reaching, optional and power steering functions. The HVS card controls all hydraulic valves and can control the speed of a pump motor in addition to other functions, with fully configurable options.

Operation and configuration parameters can be set using Elektrosistem's USB software kit.

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#### TECHNICAL SPECIFICATIONS

- Operating voltage range: 8 - 32V.
- Operating temperature range: -25 ÷ +85°C.
- 8 analogue inputs for pot, joystick or sensor with automatic calibration
- Adjustable aux power supply for 5V or 10V pot
- 10 digital inputs
- Adjustable inputs to check safety requirements
- 8 + 8 pwm proportional outputs to control up to 8 double effect proportional valves
- 1 On/Off output to control the dump valve or an auxiliary valve
- Reverse polarity protection
- Protection for all outputs in case of short circuit, overload and disconnection
- Max current supplied for each valve: 5A
- Max current supplied for all active outputs: 20A
- Overtemperature protection
- Low frequency (min. 50Hz) or high frequency control (max. 10KHz) with adjustable dither
- Possibility to supply the isolated speed reference signal as pwm for the system controlling the pump motor (a 5V external power supply is necessary) or through CANbus.
- Self diagnostics with anomaly signalling by built-in LED, external LED or display
- 1 serial port for configuration and trouble shooting, and to save and restore parameters
- 1 CANbus port for communication with other devices

~~NEWS~~

**DIMENSIONS**

