EC-PWM-P4-MPC2-H PWM DRIVER

DESCRIPTION

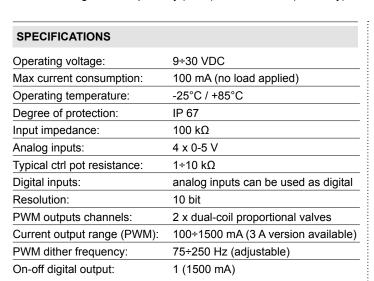
Microprocessor-based PWM driver for remote control of 2 dual-coil proportional solenoid valves.

OPERATION

The EC-PWM-P4-MPC2-H proportional valve driver supplies up to two dual-coil proportional valves with PWM (Pulse Width Modulated) current proportional to input signals coming from potentiometers, PLC or other control systems. The control characteristics (lmin/lmax, ramps, dither) are configurable via PC connected with a RS232 serial line to a configuration kit and PC interface of Tecnord supply.

FEATURES

- The current in the solenoid is independent from any change in the coil resistance or in the supply voltage.
- The inherent superimposed dither frequency helps to overcome friction and stiction effects in the controlled device.
- Supply line is protected against reversed polarity and load dump.
- · Inputs are protected against short circuits to GND and supply.
- Outputs are protected against short circuits, reversed polarity, over-current and overtemperature.
- The EC-PWM-P4-MPC2-H is completely potted.
- Electro Magnetic Compatibility (EMC): EN 61000-6-2 (Immunity), EN 61000-6-3 (Emissions).

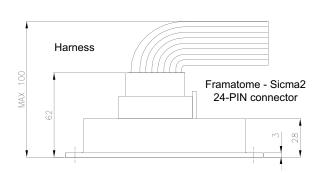


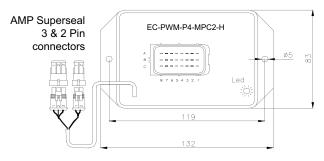
APPLICATIONS

- Specifically designed for applications requiring accurate adjustments and calibrations.
- 12 VDC and 24 VDC systems.
- Remote control of non-feedback proportional valves.
- Control of a proportional bidirectional valve with a venting valve.



DIMENSIONS



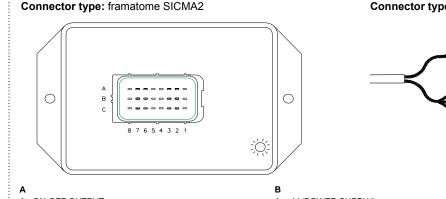


WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

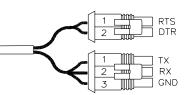


EC-PWM-P4-MPC2-H **PWM DRIVER**

CIRCUIT BOARD PINOUT - WIRING DIAGRAM



Connector type: AMP-Seal



For software download

1 RTS 2 DTR

For calibration and adjustments

2 RX

3 GND

- **ON-OFF OUTPUT**
- NOT CONNECTED 2
- 3 NOT CONNECTED
- 4 NOT CONNECTED
- NOT CONNECTED 5
- NOT CONNECTED
- ANALOG INPUT FOR FUNCTION 1 (TO DRIVE EV1A/B)
- FEEDBACK FOR EV1A/B

- +V (POWER SUPPLY)
- NOT CONNECTED
- NOT CONNECTED
- ANALOG INPUT FOR FUNCTION 2 (TO DRIVE EV2A/B)
- NOT CONNECTED
- FEEDBACK FOR EV2A/B
- NOT CONNECTED
- 8 NOT CONNECTED

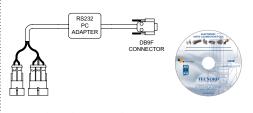
- -V (POWER SUPPLY GND)
- +5 VDC EXTERNAL SUPPLY VOLTAGE
- ANALOG INPUT SPARE
- ANALOG INPUT SPARE
- EV1A PROP. COIL OUTPUT (+)
- EV1B PROP. COIL OUTPUT (+)
- EV2A PROP. COIL OUTPUT (+)
- EV2B PROP. COIL OUTPUT (+)

ADJUSTMENTS

Adjustments can be effected via RS232 serial line to modify the following work parameters:

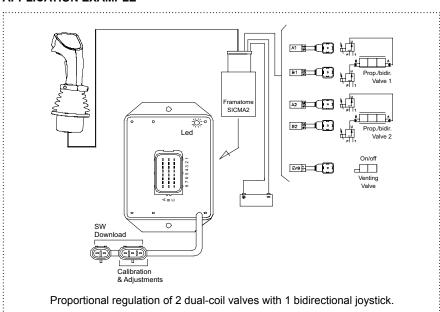
- Imin (minimum output current)
- Imax (maximum output current)
- Ramp-up time
- Ramp-down time
- **Dither frequency**

Calibration tool ordering code: 20.1001.026/A RS232 cable adapter for PC connection including calibration software on CD (see page EC44-45).

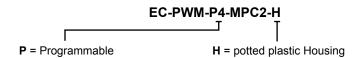


Note: USB/RS232 interface available on request.

APPLICATION EXAMPLE



ORDERING INFORMATION



Part numbers	Version
23.0409.237	1.5 A
23.0409.238	3 A

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TECNORD

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