



PROCESS EQUIPMENT

ED-400-2 PWM Motor Speed Controller

FEATURES

- Full linear operation
- Full torque at low speed
- LED-indication for Supply Voltage
- Wide range of DC Supply Voltage
- Electronic overload
- IP67 Enclosure

APPLICATIONS

- Variable speed control of DC motors and pumps



TECHNICAL CHARACTERISTICS

ED-400-2 PWM Motor Speed Controller is a μ Processor controlled Pulse Width Modulator regulator with a power MOS-FET Transistor as Power Switch for a high effective on-off regulation of the motor speed.

The speed regulation of the motor is controlled by a IP67 Sealed Potentiometer.

The switch frequency is by default, set for 10KHz. This can, as an option, be changed by order, in order to suppress the resonance frequency problem for the motor.

The duty-cycle for the PWM (speed control) is as default 0-100%. This can, as option, be changed by order to another range, ex. 20-100%

ED-400-2 has an electronic overload built in. This overload is default set for 10A, and furthermore it is checking for low voltage and cut-off at voltage below 10V to prevent damage on the accumulator

The ED-400-2 is supplied with a 2 pole Molex connector for input power, for quick and easy setup, and 2 screw terminals with 4mm lab-plug as output connector.

TECHNICAL SPECIFICATIONS FOR ED-400-2 PWM MOTOR SPEED REGULATOR

Output Signal

0-100% PWM

U_{LOW} : 0V

U_{HIGH} : $U_{SUPPLY} \pm U_{DS}$ (DrainSource)

Resolution

8 bit

Switch Frequency PWM

10KHz (other frequency can be ordered)

Output Load

max. 10A

Power Indication

3mm LED Red

Supply Voltage

10..24 VDC

Current Consumption

typ. 15mA

Operating Temperature

-10 to +60°C

Options (By order)

1: Output 20..100% PWM

2:

3:

4:

5:

EU Declaration of Conformity

EN61000-6-3 Emission

EN61000-6-2 Immunity

Warranty

One Year against faulty materials
or workmanship.

Maintenance

None

LED Indication

Constant light: OK

Flash light: Overload (disconnect power)

Short flash: Low battery (change battery)

Serial no.: _____

Options: _____

Date: _____

Sign: _____

Mechanical Specifications

Height 120mm

Width 80mm

Depth 65mm

Weight 300g