

Z-Series Controller (Catalog # 0955)

The Z-Series Controller module is an intelligent stepper motor controller and driver optimized for Z-pump applications. The module can be controlled via an RS485. Interface converter kits are available for RS232 and USB interface. Using industry standard high level commands, rapid development of motion control applications is guaranteed for bus orientation or stand-alone control.

Programs can be stored in the on-board EEPROM for stand-alone operation. With the StallGuard™ feature it is possible to detect motor overload or motor stall for homing without a sensor.

Electrical Data

- Up to 500mA peak coil current RMS
- 9 V to 30 V motor supply voltage

Interface

- RS485 or optional converter kits for RS232 or USB
- Single 4-wire bus for linking up to 16 modules
- Switch selectable addressing, EEPROM configurable
- One solenoid driver output
- Two general purpose inputs and four outputs on expansion connector

Features

- Up to 16 X micro stepping
- Automatic ramp generation in hardware
- On-the-fly alteration of motion parameters (e.g. position, velocity, acceleration)
- StallGuard™ option for sensor less motor stall detection
- Dynamic current control
- Low power dissipation driver technology: No heatsink required
- On-board diagnostic LEDs and status commands

Software

- Industry standard protocol and pump command set
- Stand-alone operation or remote controlled operation

Other

- RoHS compliant
- Size: 32 x 83 mm, multiple panel mount options

Z-Series Controller Envelope Drawing

