

## Brushless Motor Controllers

### Overview :

The EQi series of brushless motor controllers are a small light weight range of driver boards that can be installed in line with any TCS Brushless Micropump that requires an external motor driver.

The brushless motor controller allows use of the pumps full potential or a varying amount of performance depending on your requirements. This can be altered by the onboard control pot or via a 0-5v signal voltage. The pump can also be activated or reversed remotely if required.

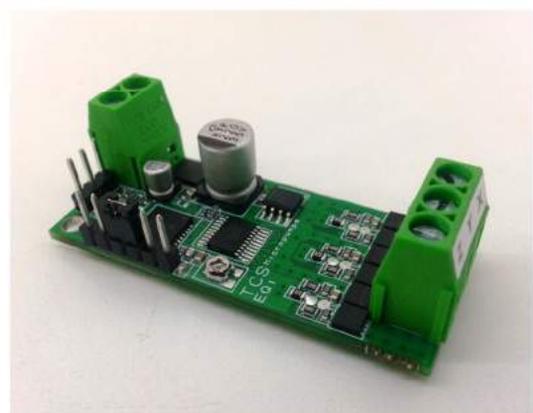
The EQi controller is designed to operate on a supply voltage of between 12-30V. The speed of the pump is 'Governed' above 12v to maintain a constant flow as the back pressure increases. This provides a flatter pressure/flow curve. All controllers are pump specific. Each variant uses the same hardware but is specifically programmed to suit the requirements of that specific pump.

### Typical Applications

The standard EQi is ideal for prototyping or development / analysis work as well as permanent installations. If required, customer variants can be produced using simple plug in headers rather than terminal blocks for easy addition to your own PCB circuits.

### Features

- Input Voltage 12-30v DC
- Simple and convenient screw terminal connections
- Small size only 24 x 57 x 17 mm
- Weight 14g
- Flow can be controlled via an onboard pot. or a 0-5v signal
- Reversible
- Operating Temperature 0 → +80°C
- Usable with power supply or batteries



Pictured Standard EQi Controller  
Manufactured to IPC-A-610  
under AS9100 QM process