

Electronic Control Unit

The Greeve Electronic Control Unit (ECU) is a generic module designed to be easily programmed to offer real-time control and automation of electro-mechanical systems.

The unit can interface to a variety of system data sources and discrete sensors to measure the operational parameters and provides control via digital and PWM high-current outputs.

The ECU is designed to operate in harsh environments and reliably operate over long periods of time.

In standard format it includes six channels of 0-10v 12 bit analogue input (options for input filter frequency and sensitivity are available). The Digital inputs are opt-isolated and will switch above 5v DC (max 18v). Two of the channels can be used to measure pulse/frequency inputs up to 50KHz.

The outputs are fully protected and provide 4A/ch 12v switched or PWM output. Channels can be paralleled for higher current drives.

The ECU will operate from 7v to 18vDC (higher voltage versions available) and is protected against reverse polarity connection, load dump, and high voltage spikes.

Expansion:

As well as the option detailed here, the ECU is fully compatible with the Greeve Networked Power Control System and can interface directly with the Greeve Remote Interface Nodes (RINs) to expand digital and analogue sensing and power switching.

Bespoke Development:

Greeve can provide systems to meet exact requirements. The ECU can be provided with specific hardware and software implementations to suit customer applications.



Standard Features:

- Environmental protection – IP67
- Shock – 50g all surfaces
- Operational temperature – -30°C to 80°C
- CAN II interface
- 1 channel USB II
- Dimensions 135 x 135 x 55mm (main body)
- 6 channels of 0 to 10v analogue input
- 8 channels of isolated switched input
- 6 channels switched/PWM output (4A max/ch)
- Power – 7 to 18v DC protected
- Standard data/control rate – up to 1KHz

Optional Features:

- Data storage – SD Flash, up to 4 Gb
- Ethernet interface
- 24v version
- Input filtering and sensitivity options

Software:

The standard ECU is provided without code and is able to be programmed by the user. A standard library of interface code is provided for the I/O to enable easy adoption of the unit.

Pricing:

The ECU starts at £390 (390 pounds sterling). Please enquire for options pricing.

E&OE - Pricing subject to quotation