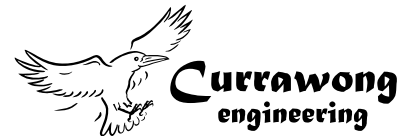


# Integrated EFI System

CE443.d01 Rev1.5 12Mar2015



202 Wasco Loop, Suite 104  
Hood River, OR 97031  
Office: 541-436-4299  
Shop: 541-308-0650



Currawong Engineering Pty Ltd  
1/84 Browns Road  
Kingston 7050  
Tasmania AUSTRALIA  
Phone: +61 3 6229 1973  
ABN 86 387 719 018

Ross Hoag  
[rosshoag@power4flight.com](mailto:rosshoag@power4flight.com)

Jim Newton  
[jimnewton@power4flight.com](mailto:jimnewton@power4flight.com)

Mark Johnson  
[markjohnson@power4flight.com](mailto:markjohnson@power4flight.com)

[www.power4flight.com](http://www.power4flight.com)  
[www.currawongeng.com](http://www.currawongeng.com)

## General Description

This integrated assembly forms a very compact EFI (electronic fuel injection) system, suited for complete control of small fuel injected engines. All parts are manufactured and supplied by Currawong Engineering.

1. Compact fully EMI shielded ECU (CE367)
2. Lightweight fuel pressure accumulator (CE426)
3. Miniature high pressure fuel pump\*

\*Multiple fuel pump configurations are available to suit fuel flow requirements. Fuel pump type B (CE370) shown above.

For a complete EFI engine control solution, Currawong also provides the required temperature sensors and customizable fuel injectors which can be tailored to customer requirements.

## Specifications

Power Consumption: Typically < 8W at full operation.

Width:	61 mm	(2.40")
Height:	85 mm	(3.35")
Thickness:	40 mm	(1.57")
Overall Weight:	165 grams	(5.82 oz)

## System Inputs

- Low pressure fuel (from fuel tank)
- Power supply (8-20V<sub>dc</sub>)
- Crank position reference signal
- Manifold absolute pressure (MAP) line
- Manifold air temperature (MAT) sensor
- Cylinder head temperature (CHT) sensor
- Throttle position

## System Outputs

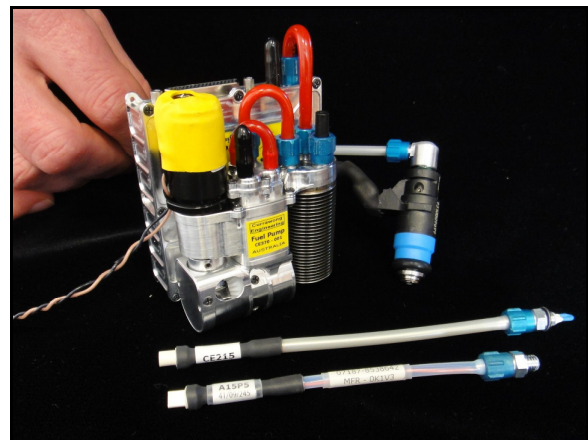
- High pressure fuel rail (regulated)
- Ignition signal
- Injector signals for up to two injectors
- Throttle control

## Features

- Extremely mature ECU system  
*(Based on mass produced high performance automotive ECU core with > 10,000 units in the field)*
- Highly configurable engine parameter tables
- Fuel pressure regulation
- CAN and Serial (RS232) interfaces
- Dead-headed fuel rail system
- Wide operation voltage range (8-20V<sub>dc</sub>)
- ECU features full integration with Piccolo autopilots from Cloud Cap Technology
- Compatible with heavy fuel

## Further Reference

- **ECU Manual** - CE367.d00
- **ECU Datasheet** - CE367.d01
- **Pump Datasheet** - CE370.d02
- **Accumulator Datasheet** - CE426.d01



EFI System with Injector and Sensors