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## PE-ECU-1

### Total Engine Control System

The **PE-ECU-1** is a completely adjustable engine control system that can handle both the fueling and ignition responsibilities of an engine. All parameters are adjustable by using the supplied tuning software and a Windows based PC.

#### General System Features

- Complete fuel and ignition control for 1, 2, 4, 6 and 8 cylinder engines
- System comes with ECU, harness, crank wheel, software and manual
- Lightweight and compact, 1.5 lbs, 5.25" x 4.75 x 2.1"
- Sturdy construction including waterproof automotive style connectors
- Can be used with most stock crank sensors
- Tune on the fly with Windows based software
- Easy to use default table generation for quick setup
- Data logging to the PC
- 3-D graphical visualization
- Save and load files to PC
- Speeds up to 15,000 RPM

#### Fuel Specific Control

- Batch and semi-sequential firing
- 16x16 table of fuel values
- Starting, Battery Voltage, Air Temp, Coolant Temp, Acceleration and Decel compensation
- Load control via manifold pressure or throttle position (speed-density or alpha-n)
- Individual injector bank trimming



*PE-ECU-1 Kit pictured with ECU, Trigger Wheel, Harness and Software*

#### Ignition Specific Control

- No external igniters required for many coils
- 16x16 table of timing values
- Load control via manifold pressure or throttle position
- Wasted spark or distributor (dist. required for 6 & 8 cylinder engines)
- Adjustable dwell
- Rev limit
- Air temperature compensation

#### Inputs

- Standard inputs are: MAP, TPS, Air Temp, Coolant Temp, Battery Voltage and Crank Position
- Uses standard GM sensors
- 3 generic analog inputs that can be used to modify fuel flow or timing based on any 0-5v sensor
- 2 configurable digital inputs that can be set to stop fuel, stop ignition or kill the engine

#### Outputs

- 4 saturated injector drivers
- 2 coil drivers with **internal igniters**
- Fuel pump control
- 4 user configurable digital outputs based on MAP, TPS, Air Temp, Coolant Temp and RPM that can be used for the following:
  - Shift Light
  - Cooling Fan
  - Nitrous Oxide
  - Automatic shift
  - Anything else that requires an on/off signal