EMS Motorsport series

www.PurchaseNet.com.au

Full Sequential ignition (coil-on-plug) for 4, 5, 6 & 8 cyl engines
Full 720 degree Sequential injection for 4, 5, 6 & 8 cyl engines
User definable resolution tuning maps for fuel & ignition
60 psi (400 Kpa) built-in MAP sensor
Dedicated stepper motor controller
8 User programmable outputs
15 User programmable inputs
2 Wide Band lambda Inputs
Closed loop lambda control
Plug n Play data logging
Closed loop idle control

Engine Management Systems

EMS

Performance Race Electronics

General Specifications

High speed Motorola processor with enhanced timer and 32 Bit maths processing. Calculates engine control parameters over 600 times per second.
Flash memory for easy software updates.
Quality standard ISO 9002.
2 Year world wide warranty.
High RF suppression.
Low heat generation.
Waterproof connector with gold plated contacts.
Case size 198x175x48.
Weight 1.1 Kg.
Case material is durable anodized aluminium.
Controls 1,2,3,4,5,6,8,10,12,16 cylinder engines.
Engine Types: 2 stroke, 4 stroke and Rotary 1 to 4.
Surface mount component circuit design

Computer Software

Real-time online programming.
Tune Analyzer
Data logging and analysis software.
Built-in Help.
Windows 98, NT, 2000, XP.

Operating Conditions

Temperature range -40 to 85 Celsius.
Operating voltage 6 – 25 Volts.
Reverse Battery Protection.

Injection Control System

Full 720 deg Sequential inj for 3 to 8 cyl engines.
  8860 has 8 injector outputs
  6860 has 6 injector outputs
  4860 has 4 injector outputs
Full 720 degree sequential injection timing.
Automatic battery voltage compensation.
Tuning accuracy / resolution is 2 micro seconds.
96X32 Independent user definable RPM / load sites
Overall trim control
Automatic Staged injection triggering.

Ignition Control System

Full Sequential ign (coil-on-plug) for 1 to 8 cyl engines
  8860 has 8 ignition outputs
  6860 has 6 ignition outputs
  4860 has 4 ignition outputs
Directly connect to most OEM ignition systems
Programmable ignition dwell
Timing accuracy / resolution 0.2 degrees
96X32 Independent user definable RPM / load sites
Overall trim control.

EMS Computers reserves the right to change features without notice.

Trigger Sensors

Compatible with most OEM trigger systems.
Selectable Magnetic, Hall or Optical trigger & sync inputs.
Automatic tracking and zero crossing detection on magnetic sensors.
Selectable trigger patterns for most engine manufacturers.

Input Sensors

5 Standard inputs (Air & Eng Temp,MAP,TPS,Volts).
1 Barometric pressure input.
8 user programmable voltage inputs. e.g. thermo couples
1 user prog. digital input. (future release will have 6 more)
2 Wide band lambda inputs

Data Logging

Unlimited logging to laptop computer.
User selectable ECU parameters to log.
Log to the EMS Plug n Play Mini Data Logger.

Special Functions

Closed Loop Idle control.
Closed loop lambda control.
Dual mode turbo anti lag (Drag or Rally).
Dual mode RPM Limit (hard and soft).
Nitrous oxide control.
Engine load idle-up control. (air con, power steering)
Programmable sensor calibration tables.
Coolant and air temperature compensation.
Barometric compensation.
Ignition delay compensation.
Adjustable TPS/MAP override compensation.
Acceleration enrichment.
Deceleration fuel cut.
Cold start and Post start enrichment adjustment.

Output Circuits

8 User programmable output channels.
  4 Selectable PWM / Digital. e.g. boost control.
  4 Digital. e.g. thermo fans, fuel pump.
Dedicated stepper motor output. e.g. idle control.

Details

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