

Stinger 4



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- Plug n Play data logging to EMS or AiM Data Loggers
- Dual mode closed loop lambda control
- 30 psi (200 Kpa) built-in MAP sensor
- User definable load points (40X21)
- Closed loop idle control
- 4 User definable outputs
- 4 Injector outputs
- 4 Ignition outputs

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.
Manufactured to quality standard AS 9001.
Warranty on parts and labour 1 year.
High RF suppression.
Low heat generation.
Case size 149x175x43.
Weight 0.85 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 3.
Surface mount component circuit design

Computer Software

32 bit 3D real-time Windows programming.
User-friendly.
Data logging and analysis software.
Built-in Help.
Windows 95, 98, NT, 2000, XP.

Operating Conditions

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

Injection Control Outputs

4 saturation drivers.
Automatic battery voltage compensation.

Injector Control System

Tuning accuracy / resolution is 0.000002 sec..
Real-time programmable RPM / load sites (40 X 21).
Fuel map user definable load points are independent of Ignition map user definable load points.
Overall trim control.
Secondary balance injector adjustment
Adjustable engine and air temperature compensation
Acceleration enrichment / decay
Cold start enrichment

Ignition Control Outputs

4 Ignition outputs
Directly connect to most OEM ignition systems
Programmable ignition current (dwell)

Ignition Control System

Tuning accuracy / resolution 0.2 degrees.
Real-time programmable RPM / load sites (40 X 21)
Overall Trim.
Adjustable dwell time.

Trigger sensors

Compatible with most OEM trigger sensors
Magnetic auto tracking and zero crossing detection
Hall and Optical
Selectable trigger patterns for most engine makes.

Input sensors

5 Standard inputs (Throttle Position, Manifold pressure, Battery volts, engine & air temp).
1 user definable digital input. (NOS, Wheel speed, anti-lag, Idle-up, etc.)
1 Wide band temperature compensated air/fuel ratio input (Bosch LSM type or Innovate LC1).
A/F Range 10.0 – 16.0.
Resolution 0.1 A/F.

Data logging

Unlimited logging to laptop computer.
User selectable ECU parameters to log.
Log to EMS Plug n Play MDL system.

Special Functions

Turbo Anti lag.
Dual RPM Limit (hard and soft).
Nitrous Oxide control.
Air conditioner control.
Over run fuel cut.
Programmable sensor calibrations.
Post Start Enrichment

Output circuits

4 User definable PWM / Digital outputs. Each having 12 user definable options.

eg, Boost control, Thermo fans, Cam control (Vtec), NOS, Shift light, Warning buzzer and lights, Idle control, Tacho, etc..

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