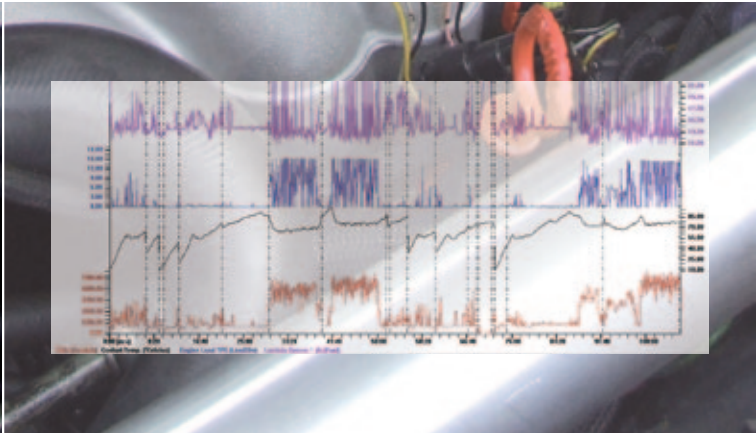
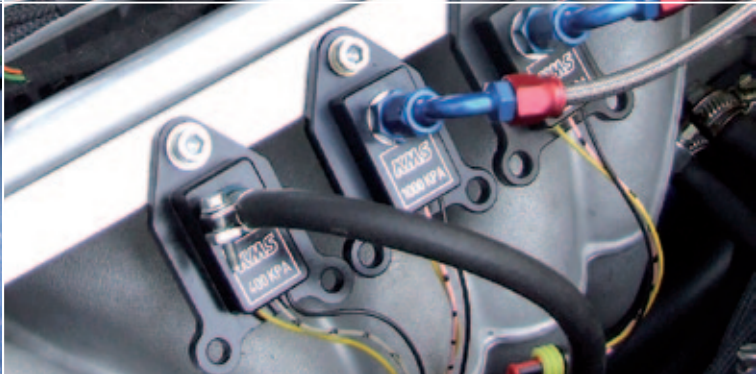


KMS

Products 2011



Kronenburg Management Systems



Kronenburg Management Systems (KMS) is a complete line of engine management systems that offers you an extremely reliable and user-friendly system at a very competitive price. It enables users to manage all (turbo + n/a) petrol engines up to 12 cylinders with an extensive range of options.

To aid the functioning of its management systems, KMS provides an extensive range of accessories including a mini dashboard, lambda controllers, idle and boost controllers, actuators, temperature sensor, position sensors, wiring, etc. KMS also provides customers with a complete external range of engine components such as throttle bodies and accessories, turbos and fuel system components.

Kronenburg management systems has a solution to suit every budget and application



Kronenburg Management Systems

KMS management ECU MD35


NEW



Kronenburg Management Systems

Top of the line engine management system

Features:

- Complete engine management system up to 12 cylinders
- Dual self-learning lambda control in combination with KMS UEGO CAN controllers
- Odd firing angles
- Direct fire in combination with cam-sensor
- Inductive / Hall crank trigger
- Staged / Banked injection
- Map selector
- Engine diagnostics
- Shortcut protected outputs
- 38 channel 4Mb data logging
- Dual processor technology
-  Water resistant
- Connector with gold-plated pins
- USB interface
- CAN communication (Used for extra in/outputs, etc)
- 2 engine load sensors
- 3 analog inputs (2nd lambda, gearbox position, etc.)
- 3 auxiliary outputs (Shift light, water-injection, fan, etc.)
- **NEW: Pit lane and speed limiter (variable)**
- RPM limiter
- A.L.S. (variable)
- Powershift (separate delay and cut-off time for each gear)
- Boost control (**NEW: gear, speed and time-dependent**)
- Launch control (variable, separate time delay possible)
- Idle control
- **NEW: 4 speed inputs from KMS speed sensor → CAN converter 4-channel**
- **NEW: Traction control**

Supplied including main connector, communication cable, software and wiring instructions



KMS management ECU MP25(M)/MA25(M)



Kronenburg Management Systems

Capable yet affordable engine management system

Features:

- Complete engine management system up to 10 cylinders
- Self-learning lambda control in combination with KMS UEGO CAN controllers
- Engine diagnostics
- Shortcut protected outputs
- Serial RS232 communication
- External dashboard
(NEW: KMS CAN display in combination with interface)
- 2 engine load sensors
- Analog input
(2nd lambda, gearbox position, G-force sensor, EGT, etc.)
- 3 auxiliary outputs
(Shift light, water-injection, cooling fan, etc.)
- Pit lane limiter (variable)
- RPM limiter
- A.L.S. (variable)
- Powershift (separate delay and cut-off time for each gear)
- Boost control
- Launch control (variable)
- Idle control
- Optional internal barometric pressure sensor ((M) types)
- Optional billet aluminium housing (MA25(M))

Supplied including main connector, communication cable, software and wiring instructions.



KMS Ignition ECU IA23



Stand-alone ignition management system

Features:

- Ignition system up to 8 cylinders (8 cylinders distributor)
 - Compact and robust design
 - Power shift / Launch-control
 - Shift light
 - For coils with or without internal drivers
 - Hall or inductive input
 - Connector with gold plated pins
 - Water resistant
 - Shortcut protected outputs
 - External dashboard
- (NEW: KMS CAN display in combination with interface)

Supplied including breakout loom, communication cable, software and wiring instructions.

KMS Fuel ECU FA23



Stand-alone fuel injection management system

Features:

- Fuel system up to 8 cylinders
 - Compact and robust design
 - RPM limiter
 - Shift light
 - Hall or inductive input
 - Connector with gold plated pins
 - Water resistant
 - Shortcut protected outputs
 - External dashboard
- (NEW: KMS CAN display in combination with interface)

Supplied including breakout loom, communication cable, software and wiring instructions.

KMS CAN display

NEW



Simple and effective mini display

Features:

- Compact, lightweight and robust design (80x50x10mm)
- Water resistant
- Straightforward connection (CANbus)
- Simple operation using only two buttons
- All engine parameters can be displayed
- Five user definable preset layouts
- Seven LED lights with two functions (warning- and shift light)
- Adjustable light intensity
- Adjustable units
- Autodetec CAN communication speed

Supplied including CAN communication wires, mounting screws and manual.

KMS UEGO CAN controller

NEW



State of the art wide band lambda controller

Features:

- Compact, lightweight and robust design (84x35x24mm)
- Water resistant
- LED light for a simple fault tracing
- Internal lambda heating
- 0.65-1.5 lambda range (9.5-22.1 AFR range for petrol)
- Analog and CAN communication output
- Uses Bosch LSU 4.9 wide band lambda sensor
- Suitable for all types of fuel (petrol, diesel, E85, methanol, etc.)

Supplied including wiring loom, contra connectors, welding nut, Bosch LSU 4.9 wide band lambda sensor and instruction manual.

KMS EGT kit

Exhaust Gas Temperature measurement kit with display

Features:

- Compact, lightweight and robust design (67mm x 35mm x 20mm)
- Water resistant
- 4-digit display
- 0-1200 °C Temperature range
- Analog output 0-5V (KMS analog input)
- Analog output 10mV / 1°C

Supplied including K-type thermocouple Ø3x150mm, compression gland, contra connector and instruction manual.



KMS EGT 4-channel CAN module

NEW

The KMS EGT 4-channel CAN module enables users to measure and monitor the temperature using four thermocouple sensors. Monitoring the four inputs can be done on the KMS CAN display, KMS Motormangement software or data logging.



KMS RS232 → CAN interface

NEW

Interface for converting analog RS232 outputs to CAN communication

Features:

- External 12V power supply to CAN-bus
- KMS ECU output signals only
- Used for connecting CAN display to MP25, IA23 and FA23



KMS Speed sensor → CAN converter 4-channel



NEW

The KMS Speed sensor to CAN converter converts the signals of four sensor inputs (hall and inductive) onto the CANbus. The four speed inputs can be monitored on the CAN display or in the KMS Motormangement software. Application of the KMS speed sensor to CAN converter enables the use of traction control on the KMS MD35 ECU.

KMS analog/digital → CAN converter 4-channel



NEW

Converter for transferring analog and digital inputs to the CANbus. Four inputs can be connected.

KMS Ignition / Injector driver



Amplifiers used for driving non amplified coils or low impedance injectors (<12 Ohm)

Features:

- ◆ Water resistant and robust design
- Three outputs (Ignition driver) / Two outputs (Injector driver)
- Peak and hold type (Injector driver)
- Supplied including contra connectors and instruction manuals

KMS Idle control kit



Idle control valve and fittings for maintaining a constant smooth idle RPM

Features:

- ◆ Water resistant and robust design
- Supplied including bracket, mounting parts and fittings



KMS Mapping box

Electronic box for adjusting the injection and ignition using two potentiometers during engine mapping.

- Two potentiometers (ignition and injection) and an enter button
- Only for MP25(M) and MA25(M)



KMS Discoil

KMS coil for wasted spark ignition system.

- 4-cylinder wasted spark discoil
- With internal ignition driver/amplifier




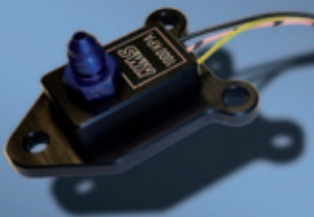
KMS Pressure sensors

KMS pressure sensors are divided into the following range:

- Barometric pressure sensor 75-120 kPa
- NEW MAP sensors: 0-100 kPa, 0-150 kPa, 0-200 kPa, 0-250 kPa, 0-300 kPa, 0-400 kPa
- Oil/fuel pressure sensor 0-1000 kPa

Features:


-  Water resistant, compact and robust design
- 4 and 6 mm hose connection on MAP sensor
- Dash -3 AN connection on oil/fuel pressure sensor
- Sensor cell resistant to fuels, oils and other liquids
- 0-5V output signal (pre-calibrated for KMS ECUs)
- Measuring speed <7 ms
- EMC protection up to 100V
- Internal temperature compensation
- Supplied including contra connector, manual and calibration values



KMS G-force sensor

KMS sensor for measuring G-forces in three directions. The output signals can be connected to the KMS Management ECUs.

Features:

- Compact and robust design
-  Water resistant
- Available in $\pm 2G$ and $\pm 6G$
- 0-5V linear output
- Supplied including contra connectors, manual and calibration values



KMS Sensors

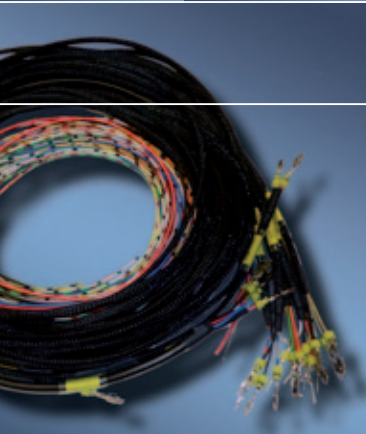
KMS also offers extra sensors such as:

- Throttle position sensors
- Air temperature sensors (M12x1,5)
- Water temperature sensors (M10x1, M12x1,5 and several hose fittings)
- Universal inductive crank sensors with trigger wheels
- Lambda sensors (Bosch standard narrow band, Bosch LSU 4.2 and 4.9 wide band)
- Thermocouples ($\varnothing 3 \times 150 \text{mm}$)



KMS Wiring

KMS has an extensive range of electrical products to connect KMS management ECUs to your engine. It includes many different types of wires, connectors, crimping tools, breakout looms, basic wiring looms, custom made wiring looms, etc.



KMS Fuel injectors



KMS fuel injectors are available in the following specifications:

- NEW: Dot Blue 240cc
- NEW: Dot White 300cc
- NEW: Dot Yellow 380cc
- NEW: Dot Red 420cc
- NEW: Dot Black 480cc
- NEW: Dot Green 520cc
- 840cc-1210cc at 2.5-5.0 bar

Features:

- Bosch/AMP 2 pin connection
- Flow rates of the Dot injectors are measured at 3-bar fuel pressure
- Dot injectors size: EV6
- 840-1210cc injector size: EV14xT with extension
- All injectors are supplied as 4-piece sets
- Suitable for all types of fuel (petrol, E85, methanol, etc)

Injector extension adapter sets:

- EV6 → EV1
- EV14xT → EV6
- EV14xT → EV1



KMS Fuel pressure regulators



KMS fuel pressure regulators are available with the following specifications:

- 2-way (black) or 3-way (red) pressure regulator housings
- Hose or Dash -6 AN fitting
- 3-bar, 4-bar or adjustable 0-5 bar pressure regulator inserts

Features:

- MAP compensation
- Billet aluminium housing
- Suitable for all types of fuel (petrol, E85, methanol, etc.)

KMS External products

To provide customers with a complete solution for all applications, KMS also has a full external range of engine components such as throttle bodies and accessories, turbos and fuel system components.

KMS Throttle bodies

In order to be able to guarantee a constant quality, KMS started developing and producing intake systems. KMS is involved with the production of intake systems (throttle bodies) from beginning to end, ensuring constant high quality and the possibility to cater directly to customers' demands.

The KMS throttle body range consists of throttle bodies, air horns, inlet manifolds, levers and brackets, fuel rails and throttle linkages.

Holset Turbochargers

Besides several products for the intake system, KMS also provides parts for the exhaust side of the engine in the form of Holset turbochargers. Holset offers a wide range of turbochargers for those who are looking for maximum power and torque. The turbocharger range is not limited to just turbochargers: KMS also stocks several types of Tial external wastegates and blow off valves.

KMS Fittings

In addition to the KMS Fuel injectors and KMS Fuel pressure regulators, KMS also offers its own range of Kronenburg Fittings. The Kronenburg Fittings range consists of more than 1000 products such as Dash AN fittings, NPT thread fittings, oil cooler fittings, braided hoses, etc.





Kronenburg Management Systems

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