



**SMP**  
EUROPE

ENGINE MANAGEMENT  
RANGE

PROUD TO DRIVE THE AUTOMOTIVE AFTERMARKET



“Trusted for over 50 years, SMP Europe is regarded as one of the leading aftermarket manufacturers and suppliers with an unrivaled reputation for range and quality.”

RANGE OVERVIEW

ENGINE MANAGEMENT

PRODUCT	PART NUMBERS IN RANGE	VEHICLES COVERED
AIR MASS METERS	311	75M+
CRANK SENSORS	366	2M+
CAM SENSORS	199	3.1M+
GEARBOX SPEED SENSORS	21	800K+
SPEEDOMETER SENSORS	21	800K+
WHEEL SPEED SENSORS	750	700K+
AIR INTAKE SENSORS	45	900K+
EXTERIOR AIR SENSORS	7	1.1M+
INTERIOR AIR SENSORS	22	4M+
FUEL TEMP. SENSORS	10	1.1M+
COOLANT TEMP SENSORS	252	4.5M+

PRODUCT	PART NUMBERS IN RANGE	VEHICLES COVERED
OIL TEMP SENSORS	5	800K+
BOOST PRESSURE SENSORS	18	3.2M+
BRAKE PRESSURE SENSORS	2	6.4M+
FUEL PRESSURE SENSORS	63	1.1M+
MAP SENSORS	153	900K+
OIL PRESSURE SENSORS	6	3.2M+
EXHAUST PRESSURE SENSORS	25	1.4M+
OIL LEVEL SENSORS	31	1.8M+
COOLANT LEVEL SENSORS	7	2.8M+
WASHER LEVEL SENSORS	11	700K+
KNOCK SENSORS	132	12M+
VVT SOLENOIDS	59	39.4M+

# INNOVATIVE TRUSTED SOLUTIONS

## SMP EUROPE IS PROUD TO DRIVE

Serving the automotive aftermarket for over 50 years, SMP Europe has an unrivaled reputation for performance, quality and range. Combining unmatched experience with the latest techniques in engineering and manufacturing means that SMP Europe products outperform aftermarket alternatives time and time again.

As SMP Europe’s flagship brand, SMP Europe is constantly innovating and expanding to ensure that it keeps up with the demands and trends of the marketplace. You can rely on SMP Europe to be ahead of the curve and ready with the components you need, when you need them!

The SMP Europe range covers an unrivaled portfolio of Engine Management, Ignition, Emissions and Fuelling components. Engineered and manufactured to the highest standard, using the latest technologies, all products are tested rigorously to meet or exceed OE tolerances and performance.

DESIGNED AND MANUFACTURED  
TO MEET OR EXCEED OE  
SPECIFICATIONS - QUALITY AND  
PERFORMANCE GUARANTEED



### WARRANTY

SMP Europe components are covered by warranty, including labour claim, from date of fitment. This covers all products, for absolute peace of mind and trust in performance.

### MARKETING

Our brands are supported with the highest level of marketing support. Including brochures, leaflets, posters and a range of premium SMP Europe merchandise to support dedicated campaigns or promotions

### CATALOGING

SMP Europe are a certified data provider to Aldoc, AutoCat+ and TecDoc, providing up-to-date and accurate application data for all SMP Europe components 24/7 worldwide.



# SMP EUROPE

## AIR MASS METERS

WITH THE LATEST IN SENSOR TECHNOLOGY, SMP EUROPE AIR MASS METERS CAN REMAIN WITHIN OE TOLERANCES FOR OVER 100,000KM

Now one of the most critical engine management components, Air Mass meters monitor the air entering the engine and relays information via an electronic signal to the Engine Control Unit (ECU) to determine engine load and calculate correct fuelling and ignition timing.

SMP Europe's OE quality Air Mass Meters employ platinum sensor technology. Whilst many aftermarket alternatives use inferior technology, SMP Europe parts contain the best materials and electronics found in many OE systems, giving the product a proven record for long life and high performance.

Designed and developed in the UK, each unit is individually tested and calibrated on high-tech bespoke equipment which simulates air intake across different driving

conditions. Each sensor is supplied with its own test certificate for traceability and confidence.

If the Air Mass meter fails, the vehicle will not function correctly. Common symptoms include: Decrease in engine power, Vibration, Hesitation, Reduced fuel economy, Diagnostic fault codes. It can be difficult to diagnose a faulty Air Mass Meter on symptoms alone, other faulty components such as the Fuel Pump, Fuel Pressure Regulator and Vacuum System can all present similar symptoms, which is why it is important to troubleshoot the Air Mass Meter before replacing components. On new vehicle models, the car computer can produce diagnostic trouble codes (DTC) that will pinpoint the cause of the problem.



PART NUMBERS  
IN RANGE

311

NUMBER OF  
APPLICATIONS

20M+

VEHICLE PARC  
COVERAGE

54%

# SMP EUROPE SPEED SENSORS

SMP Europe's range of sensors utilise the latest technologies to ensure that they remain among the most accurate and reliable in the aftermarket. The comprehensive range includes Inductive and Hall effect sensors, all designed and manufactured to the highest standards. Tested to ensure 100% confidence in performance and operation, the range is easy to fit, with vehicle application coverage among the largest in Europe for aftermarket sensor components.



## Crank Sensors

SMP Europe Crankshaft sensors work with the vehicle ECU to calculate crankshaft position in relation to the pistons.



## Cam Sensors

Monitor camshaft to ensure correct ignition timing. Working with the vehicle ECU to calculate that crankshaft position in relation to the pistons.



## Gearbox Speed Sensors

Measuring the speed of the gearbox and providing feedback on RPM SMP Europe's range of Gearbox Speed Sensors are among the most accurate and high quality in the market.



## Speedometer Sensors

Designed to function accurately under harsh operating conditions, SMP Europe's range of Speedometer Sensors provide a high quality solution for the respective requirements of any vehicle application.

## WHEEL SPEED SENSORS

Combining high quality materials with dependable electronics, SMP Europe's Wheel Speed Sensors provide a reliable signal to the ECU for use in the Anti-Lock Braking System, Traction Control and Stability Control Systems, optimizing driving experience and road safety. The Anti-lock Braking System relies on Wheel Speed Sensors to prevent skidding and loss of control under hard braking. The fast and accurate data feedback that SMP Europe sensors provide contribute to safety, comfort, driving dynamics, fuel saving and reduced emissions.

# SMP EUROPE TEMPERATURE SENSORS



## Air Intake Sensors

SMP Europe Air Intake Temperature Sensors deliver real time accurate data to the ECU, determining the temperature in the suction pipe, influencing the mixture and firing angle. Designed so that resistance changes depending on air-intake temperature, the effected voltage output can be evaluated by the ECU to ensure the optimal performance of the engine.



## Exterior Air Sensors

SMP Europe External Air Temperature Sensors provide an accurate reading of the temperature outside of the vehicle.



## Interior Air Sensors

SMP Europe Interior Air Temperature Sensors provide the climate control system with responsive, accurate data to manage the interior temperature of the vehicle.



## Fuel Temp. Sensors

SMP Europe Fuel Temperature Sensors provide accurate data readings across a number of vehicle application. Capturing reliable data over a long service live to prevent overheating and engine cut outs.



## Coolant Temp. Sensors

SMP Europe Coolant Temperature Sensors perform to the highest level, acting as an integral part of the cooling system. Detecting the engine operating sensor and relaying a warning message should it exceed the target value, protecting the engine from damage and providing peace of mind and reliability.



## OIL TEMPERATURE SENSORS

Ensuring that the engine oil temperature is controlled is critical to the performance of the vehicle. SMP Europe Oil Temperature Sensors are designed to be air tight, and protected against malfunction to ensure reliable and accurate readings over a long lifespan.



# SMP EUROPE PRESSURE SENSORS



## Boost Pressure Sensors

SMP Europe Boost Pressure Sensors relay minute fluctuations in air pressure and air/fuel mix ratios to the ECU, regulating performance and efficiency in turbocharged and supercharged engines.



## Brake Pressure Sensors

Designed to provide vehicles with dynamic stability control exact measurements of braking input from the driver, allowing for compensation of the difference between driver braking effort and vehicle braking response.



## Fuel Pressure Sensors

SMP Europe Fuel Pressure Sensors feedback reliable data of the fuel pressure to the ECU enabling necessary changes to fuel injector timing and fuel quantity.



## MAP Sensors

Manifold Absolute Pressure sensors (MAP) continuously monitor the engine vacuum. SMP Europe sensors react quickly and accurately to adjust injected fuel amounts to the combustion chamber and enhance vehicle performance.



## Oil Pressure Sensors

Built to measure pressure of oil in the engine, SMP Europe's Oil Pressure Sensors constantly monitor to ensure safe operation of the vehicle and prevent damage to the engine.



## EXHAUST PRESSURE SENSORS

Usually mounted within the engine compartment, SMP Europe's Exhaust Pressure Sensors connect to the DPF, one hose upstream and one downstream, to measure and compare the difference in pressure of the exhaust gas. By analysing the data the sensor can estimate the amount of particulate matter trapped in the filter and signal the ECU to begin DPF regeneration. A clogged DPF is a costly repair with significant consequences to the vehicle's engine. That's why SMP Europe have developed high quality Exhaust Gas sensors that can be relied upon.



# SMP EUROPE

## LEVEL SENSORS



### Oil Level Sensors

SMP Europe's Oil Level Sensors continuously monitor the oil level throughout the entire engine operation. Marginal influences such as sloping positions of the vehicle are compensated by averaging the measured values in the ECU



### Coolant Level Sensors

SMP Europe's range of Coolant Level Sensors constantly monitor levels of coolant in the system, ensuring that the engine is operating safely and efficiently.



### Washer Lever Sensors

Accurate and reliable information about screen wash levels are important, that's why SMP Europe's Level Sensors are designed to remain precise, manufactured to avoid damage and corrosion.



## KNOCK SENSORS

SMP Europe Knock Sensors are highly accurate and tested to meet or exceed OE standards. Able to provide high precision in the extremist conditions, improving efficiency and prolonged engine life.

SMP Europe Knock Sensors are manufactured and tested to the highest standards, benefiting from over 50 years of engine management experience, and producing products to excel in the harshest environments. Providing high precision feedback to the ECU on the vibration in each cylinder to enable optimal timing and engine performance.



## VVT SOLENOIDS

Variable Valve Timing Solenoids made by SMP Europe feature high quality components designed to avoid known causes of failure and extend service life.

VVT Solenoids can fail due to low engine oil levels or irregularly changed oil filters. To ensure optimal performance SMP Europe VVTs are manufactured to remain reliable and accurate in the harshest of operating conditions and expect a long service life, backed up by a generous warranty contribute to safety, comfort, driving dynamics, fuel saving and reduced emissions.

**SMP Europe are committed to providing the solution for your needs, with our Engine Management portfolio available across a number of well known automotive brands.**

We've learnt over 50 years how varied and specific our customer's needs are, which is why we have developed a diverse brand programme, renowned for quality, reliability and value at all levels of the aftermarket. As well as our main three brands listed below, we have a range of in-house lines available, including FuelParts., HighVolt and Kerr Nelson.



Trusted for over 50 years, Intermotor has an unrivalled reputation for performance, quality and range. Combining unmatched experience with the latest technologies in engineering and manufacturing means that Intermotor products outperform aftermarket alternatives time and time again.

The Intermotor range is constantly innovating and expanding to ensure it keeps pace with the demands and trends of the industry. You can rely on Intermotor to be ahead of the curve and ready with the components you need, when you need them.



One of the fastest growing Aftermarket brands, Lemark offers value without compromising on quality. Lemark boxes contain the very best products available in the market. Utilising the latest, and best, available technologies and processes you can rely on Lemark products to perform to the highest standards over a long service life.

Lemark's catalogue is regularly updated to provide an OE matching solution at an affordable price point. Lemark offers a full Engine Management programme, from sensors to EGR valves, to provide a complete solution in a single recognisable box.



One of the most well known, and historic, aftermarket brands, Lucas offers value whilst maintaining the highest quality standards with products that always meet, and often exceed OE performance.

SMP Europe provides Engine Management and Ignition solutions to the aftermarket in the famous green box, recognisable around the world and renowned for quality and performance.

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