

ECM AFM1540 Lambda Module



Ready for ETAS INCA



Bosch LSU 4.9 Sensor



- 0.55 to 1.2 Lambda Range
- Very Compact Packaging
- Linearized Analog Output

- Serial Measurement Bus (SMB)
- 100% ETAS INCA Compatible
- Easy Calibration in Air

The ECM Lambda Module (AFM1540) is a tool for the calibration, monitoring, and closed-loop operation of spark ignition engines. The AFM1540 uses a wide-band Lambda sensor that is mounted in the exhaust of the engine. Exceedingly simple to hook-up and operate, the AFM1540 comes complete with sensor, harness, module, SMB cables, instruction manual, and an exhaust boss and plug. The 0V to 5V analog output is linearized in AFR and Lambda and can be connected to any data acquisition or engine control system. The AFM1540's SMB interface allows serial communication with as many as 16 modules using a single RS-232 serial port from a computer, and is fully compatible with ETAS INCA software. The AFM1540 provides unmatched measurement range, accuracy, and speed-of-response in a compact, lightweight package and is an essential tool for any in-vehicle powertrain development program.

Specifications

Analog Voltage Output:

0V to 5V linear with AFR and Lambda
Measurement Range: 8.0 to 18.0 AFR

Serial Measurement Bus (SMB):

AFR, F/A, λ , and %O₂
Measurement Ranges: 8.0 to 18.0 AFR
0.055 to 0.125 F/A
0.549 to 1.235 λ
0.0 to 4.0 %O₂

Sensor Mounting: 18 mm x 1.5 mm

Size: 100 mm x 88 mm x 25 mm

Weight: 160 gm

Power: 11 to 28 VDC

Accuracy: 1.5%

Calibration: Hold sensor in air

Included: Control module, Bosch LSU 4.9 (or 4.2) sensor, 1 m, 3 m, or 6 m harness, SMB cables, manual, exhaust boss and plug

ECM ENGINE CONTROL
AND MONITORING

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