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PDF Diesel Engine  
Control System  
Diesel Engine  
Control System

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Wärtsilä UNIC engine  
control system for

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diesel engines

An engine control unit, also commonly called an engine control module, is a type of electronic control unit that controls a series of actuators on an internal combustion engine to ensure optimal engine performance. It does this by reading values from a multitude of

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sensors within the engine bay, interpreting the data using multidimensional performance maps, and adjusting the engine actuators. Before ECUs, air-fuel mixture, ignition timing, and idle speed were mechanically set and dynamically con

CDTi Exhaust

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### Emissions Control Leaders

In diesel engines, primary application is to control NO<sub>x</sub> emissions. Commonly used in many light- and heavy-duty diesel engines. High pressure EGR delivery can introduce a fuel consumption penalty through higher pumping losses. Low

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pressure EGR has lower pumping losses but is more difficult to control during transient operation.

Diesel | Woodward  
Advanced Engine  
Control Panels and  
Engine Accessories.  
LOFA Industries, Inc.  
is a leading  
manufacturer of  
advanced engine



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controls and engine accessories for both mechanically-governed and CANbus<sup>®</sup> based J1939 electronically governed engines. Its controls utilize advanced semiconductor and microprocessor technology to provide state-of-the-art monitoring, protection, diagnosis and control

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of today's sophisticated engines and previous models.

Engine Control Module  
for Common Rail  
Diesel Engines  
to a base diesel or  
gasoline engine  
allowing them to  
operate on natural gas,  
LPG and gasoline.  
Engine Calibration Our  
dynamometer facilities

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are world class. With these facilities, our technicians and engineers can quickly install our engine control system, instrument the engine, complete the engine calibration and perform the

Diesel Engine Fuel  
Systems

The Wärtsilä UNIC

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engine control system for diesel engines is a durable, all-inclusive, automation system designed especially for the harsh environment in which engines operate. The UNIC engine control system provides an engine-mounted, local control panel that includes a display unit with the engine's operating

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data, and an hour counter. With its in-built redundancy and durable mechanical and electrical design, the UNIC system meets the highest reliability requirements.

Diesel Engine Control  
Panels, Accessories,  
Wire Harness  
Main Engine Control  
System for Internal

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Combustion Marine Diesel Engines Main engine control system is used for automatic remote control and protection of main ship's diesels. It permits to change direction and speed rotation of propeller directly from the bridge by navigators.

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System for Internal  
Combustion Marine ...  
CDTi is the emissions  
technology leader -  
reducing exhaust  
emissions from on- and  
off-road engine  
applications. CDTi  
globally deploys  
advanced exhaust  
catalyst technologies to  
reduce harmful exhaust  
emissions from light-  
duty gasoline, heavy-

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duty diesel, natural gas, bio-fuels and other applications.

Engine control unit -  
Wikipedia  
FW Murphy continues to provide a full spectrum of engine management solutions. These range from electronic and mechanical controls to custom engineered



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compressor control panels and systems, plus turnkey ignition systems and air-fuel ratio control systems.

Diesel Engine Control System  
Electronic Diesel Control is a diesel engine fuel injection control system for the precise metering and

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delivery of fuel into the combustion chamber of modern diesel engines used in trucks and cars.

Aftertreatment and  
System Fundamentals  
for Core ...

Engine Control Module  
for Common Rail

Diesel Engines The  
modern diesel engine is  
under constant  
pressure to provide

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more power/torque, refinement, efficiency and at more stringent emissions levels. The ability to meet these ever-increasing demands, coupled with the need to shorten development cycles and reduce costs, requires

Electronics Control  
Units | Cummins Inc.  
Woodward diesel

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engine control systems enable diesel engines to run with low emissions and high efficiency.

Our systems manage the complete diesel engine combustion process and gas exchange cycle. The systems provide control of the charge air or combustion air through compressor bypass, turbo waste gate,

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exhaust gas recirculation (EGR) or variable turbine area or geometry turbochargers.

Electronic Diesel Control - Wikipedia  
Quite simply, their engine control panels are among the best in the industry, the easiest to install and are competitively priced.

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Combined with our experience in diesel engine customization, a LOFA control system can meet any unique engine control demand – with an array of quality engine accessories such as engine wire harnesses, sensors, float switches, transducers and gauges.

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FW Murphy

Production Controls

Diesel Engine

Computer Systems 5

use of a hydraulic  
pumping element. The  
pumping element's  
pressurization of  
engine oil, monitored  
by the injection control  
pressure (ICP) sensor,  
is electronically  
controlled by an  
injection pressure

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regulator (IPR) whose spool is positioned by the ECM. Throughout this process, the ECM receives and processes pressure-

Controls for Modern  
Engines  
Diesel Engine Control  
Systems for  
Caterpillar® engines  
listed on the cover of  
this section. Additional



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### Control System

engine systems, components and dynamics are addressed in other sections of this Application and Installation Guide. Engine-specific information and data are available from a variety of sources.

Engine Emission  
Control - DieselNet  
The learning objectives

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of this video are that the learner will:

- Know the requirements for a basic fuel system for a diesel engine.
- Know the various components in a diesel engine fuel system.

Study Unit Diesel  
Engine Computer  
Systems

Diesel particulate filters  
are a proven and

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reliable emissions reduction technology with over 1 million Cummins DPFs in use since 2004. DPFs are effective at removing over 90% of Particulate Matter (PM). Combination systems are designed for rugged off-highway markets and to fit tight space constraints.

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Control Systems -

Stauffer Diesel

Diesel Engine Control

Fuel Quantity. Fuel

quantity is controlled by

a governor or a series

of governors... Fuel

Injection Timing and

Pressure. Injection

timing and pressure are

important factors

influencing... Boost

Pressure. Boost

pressure control in

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engines with a fixed geometry,... EGR ...

DIESEL ENGINE  
CONTROL SYSTEMS

Diesel ECM's.

Cummins Diesel

Electronic Control

Modules are engine

controllers fit to power

the worldwide diesel

market meeting a

variety of emissions

regulations. At

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Cummins we design our ECM's to meet criteria for the most advanced technology in the commercial diesel markets.

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