

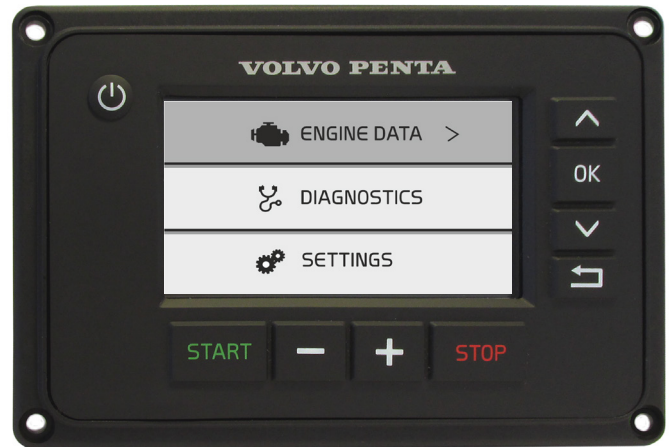
DISPLAY CONTROL UNIT, DCU2

Engine control, monitoring and diagnostics in one unit

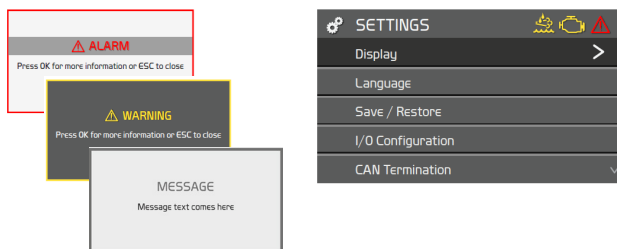
Volvo Penta's optional DCU2 gathers all vital engine information in one place. The compact and easy-to-use control panel is designed for optimal functionality and simplified engine control.

The DCU2 features a 4.3" color display which provides all vital engine information via a user-friendly interface. It's tailor-made for Volvo Penta engines with functions including engine control, monitoring and diagnostics. The DCU2 communicates directly with the Engine Control Unit (ECU) to provide accurate information. The DCU2 is easy to read in bright sunlight and designed for demanding and tough conditions.

The DCU2 also makes it possible to connect both digital and analogue components for external engine control and monitoring. The wide range of installation possibilities makes it adaptable to a variety of off-road and genset machines.



The information is quickly and easily accessed with push buttons. The user-friendly interface provides full control.



The DCU2 provides all engine information located in one place. It also presents warnings and errors in text via pop-up messages. A status bar is available with symbols for different alerts.

All vital information in one place

The DCU2 provides all vital engine information, including - monitoring fuel consumption, engine RPM, engine temperature and AdBlue®/DEF level. The DCU2 controls the engine, provides status updates and error code messages with suggested actions. It also allows RPMs control or engine shut-down with the push of a button.

- **Engine control**
Start, stop, RPM control.
- **Monitoring**
Shows engine speed, charge air pressure, charge air temperature, coolant temperature, oil pressure, oil temperature, engine hours, instantaneous fuel consumption, AdBlue/DEF level.
- **Diagnostic**
Shows fault codes in text with suggested actions. The DCU2 fulfills HMI requirements for Stage IV / Tier 4 Final and provides alarms and information for the engine after treatment system.
- **Settings**
Various display modes (light or dark background), Language settings (English, French, German, Spanish, Chinese).

DISPLAY CONTROL UNIT, DCU2

Engine control, monitoring and diagnostics in one unit

Features:

- Engine control, monitoring and diagnostics in one unit
- User-friendly interface
- Designed for Volvo Penta engines
- Designed to withstand a temperature range between -40 to +85 °C
- Designed to withstand high vibrations
- Fault codes in text with suggested actions announced with a built-in-buzzer
- Fulfills the requirements according to IP67 for high dust and water resistance
- Fulfills HMI requirements for Stage IV / Tier 4 Final
- Wide range of installation possibilities to suit a variety of machines
- Easy installation

ECU Engine Control Unit

CAN Controller Area Network

DEF Diesel Exhaust Fluid

IP International Protection Marking

HMI Human-Machine Interface

OEM Original Equipment Manufacturer

Adaptable to a variety of machines

The DCU2 works as a “translator” and makes it possible to connect digital and analogue components for external engine control and monitoring. With individually configurable inputs/outputs, the DCU2 can translate signals from analogue into digital and send it to the engine. Similarly, it can translate signals from digital to analogue.

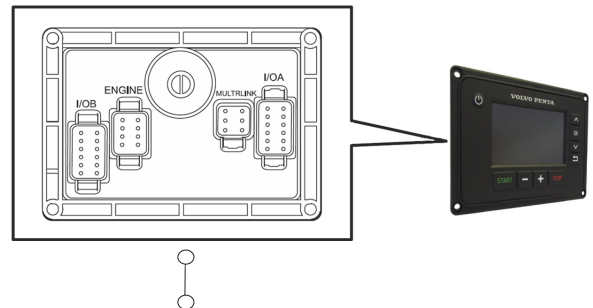
For example, the engine can be preheated by an external switch connected to the input/output. Engine speed can also be controlled by an accelerator pedal. Although a buzzer is built in, an output is provided for a louder horn or alarm to be installed.

With a CAN-bus connected tachometer, the following gauges can be installed:

- Engine coolant temperature
- Oil temperature
- Oil pressure
- Battery voltage
- Boost pressure
- Alarm instrument

Multiple displays

Multiple DCU2 can be installed to the same engine. One can be used as control/monitoring and additional DCU2 can be used as monitoring. The DCU2 can be engine mounted or installed separately.



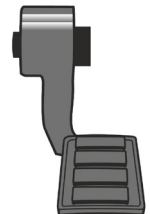
Additional components (examples)



DCU2 (monitoring)



Key



Accelerator pedal



Gauges

Ease of installation

The DCU2 is easy to install and delivered with all necessary components. Options are available for different types of mountings.

Requirements

Available for a wide range electronically governed engines in Genset and Off-road machines, including Stage IV / Tier 4 Final engines. For more information and availability, please contact your Volvo Penta dealer.

Please contact your local Volvo Penta dealer for further information. Please note that products illustrated may differ from production models. Not all models and accessories are available in all markets, and standard equipment may vary between different markets. Every effort has been made to ensure that facts and figures are correct at the time of publication. However, Volvo Penta reserves the right to make changes without prior notice at any time.

V O L V O P E N T A

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