



Handling a complex world.



success

**Pedal Interface II – the easy, flexible way
to manage engine performance.**



Pedal Interface II

experience

Flexible solutions for growing demands.

On today's roads there are many compelling reasons to enhance vehicles and optimise engine management. These include the rising volume of traffic, higher accident rates (particularly for light commercial vehicles) and greater pressure on both drivers and vehicles, as well as environmental concerns, tougher competition and new legislation. However, it's also vital to find inexpensive yet effective ways of meeting these changing requirements.

The VDO brand is synonymous with customised solutions that handle sophisticated technical tasks while fulfilling customer requirements and offering maximum ease of operation. Special modules and components such as Pedal Interface II from VDO help meet these increasing demands in terms of safety, protecting the environment and cost-effectiveness. For many years now VDO has been a reliable partner in the field of vehicle electronics for manufacturers, workshops and end customers alike.

New legislation



EU Directive 92/6/EEC

Since January 1994, all goods-carrying vehicles above 12 tonnes – and all passenger-carrying vehicles above 10 tonnes – have required a speed-limitation device as standard. Since January 1995 aftermarket fitment has been mandatory for older vehicles.

Tightening the rules:

From January 2005, a similar rule will come into force for manufacturers of all commercial vehicles above 3.5 tonnes and all passenger vehicles with more than eight seats (in addition to the driver's). From January 2006 there will be a general requirement¹ to fit all the vehicle types mentioned above with a suitable speed-limitation device.

Mandatory max. speed limitation:

Commercial vehicles above 3.5 t:	90 km/h
Passenger vehicles with more than 8 seats:	100 km/h

¹Applies to vehicles with Euro 3-compliant diesel engines (88/77/EEC) registered between 1 January 2001 and 31 December 2004.

High performing and versatile.

Pedal Interface II is the simple, cost-effective way to control electronically managed engines and is available in three versions: STANDARD, ENHANCED and PREMIUM. These are tailored to various requirements and are extremely user friendly. The range of applications extends from variable road speed limitation including Tempostat® cruise control to engine-speed limit and variable engine-speed control. As you'd expect from VDO, exceptional ease of use, maximum efficiency and low retrofit costs come as standard. The overview below shows three typical applications for the different versions of Pedal Interface II.

Versions



Standard

Tempostat® cruise control

Pedal Interface II STANDARD allows the driver to set a constant speed depending on traffic and road conditions. It is also possible to vary the speed-limitation setting.



Enhanced

Road speed limiter
Tempostat® cruise control

The ENHANCED version of Pedal Interface II offers the same functions as the STANDARD version, plus the option of limiting the vehicle's maximum speed.



Premium

Engine-speed regulation
Engine-speed control facility
Road speed limiter
Tempostat® cruise control

The full version, Pedal Interface II PREMIUM, allows all aspects of engine performance to be managed according to individual requirements. Alongside the features of the STANDARD and ENHANCED versions, it is also possible to customise engine-speed regulation.

Clear advantages for all users.

Harness the benefits of Pedal Interface II:

- Greater driver safety due to lower risk of accidents thanks to speed limitation
- Reduced running costs due to better fuel economy and lower maintenance requirements
- Increased comfort due to convenient cruise control function
- Low installation costs due to special configuration of Pedal Interface II
- Straightforward retrofitting – no need to adjust standard engine management software or hardware²
- Flexible deployment options thanks to custom programmability

²Trained and authorised personnel only may perform these tasks.

Functions

Standard

Enhanced

Premium

Functions	Standard	Enhanced	Premium
Tempostat® cruise control Flexible speed limitation and speed selection	•	•	•
Variable road speed limiter Custom setting of max. speed between 30 and 200 km/h	•	•	•
Road speed limiter Define maximum top speed		•	•
Additional road speed limiter Program up to 7 additional speed limitations on control unit ³		•	•
Engine-speed limit Define a maximum top engine-speed		•	•
Fixed engine-speed control facility Program up to 7 additional engine-speed limitations on control unit ³			•
Variable engine-speed control facility Custom engine-speed options via remote control handset up to a defined max. engine speed			•
Setting limitations Program up to 7 setting limits via the status inputs ³			•

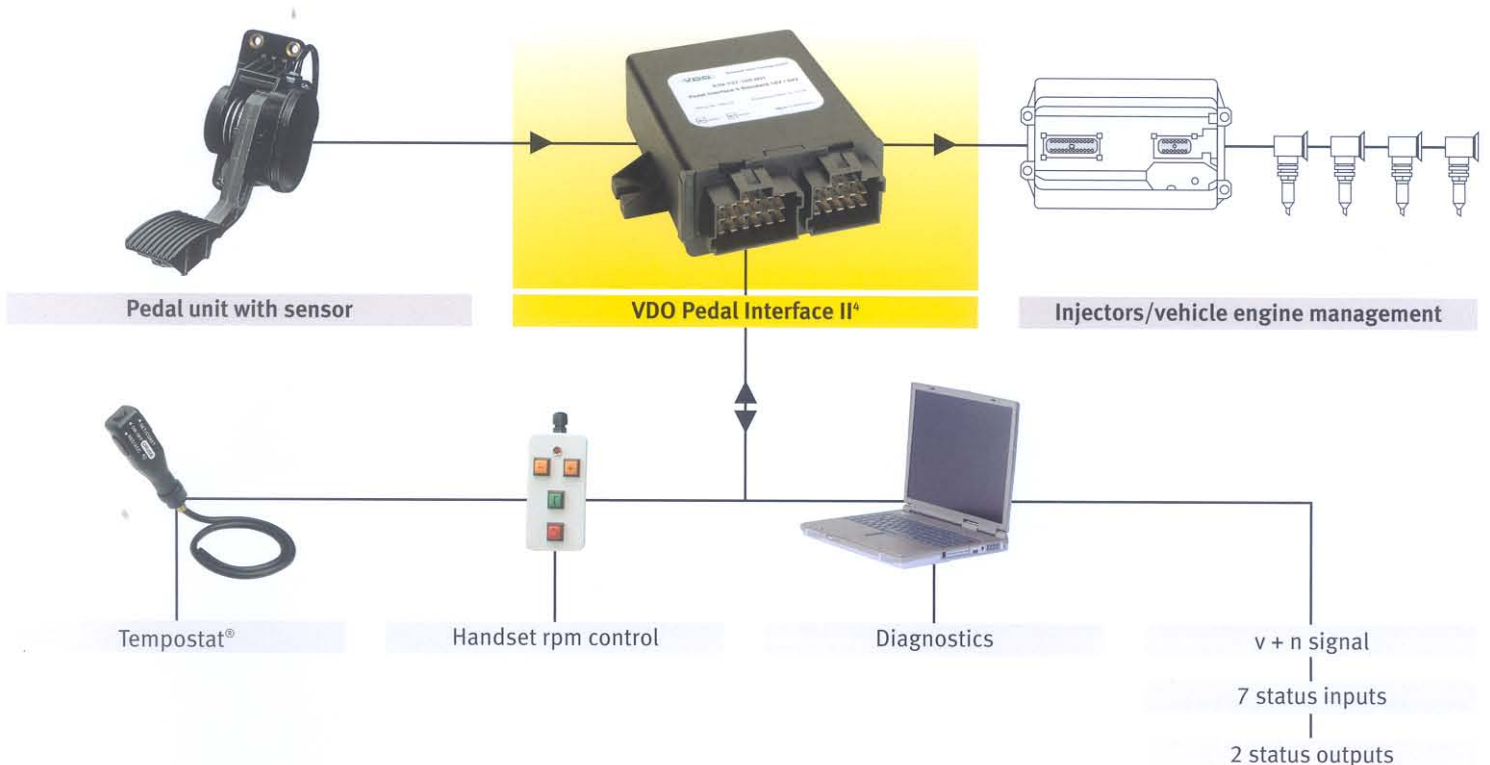
³A maximum of 7 limits may be set in total.

Functionality and easy retrofitting.

Road speed limiters and electronic pedal units have been used on the road and on specialist vehicles for more than 20 years. Pedal Interface II consists of an electronic control unit which installs between the pedal sensor and the engine management system and can be custom programmed. An optional wired remote control handset allows engine speed to be managed externally, depending on the version.

According to how the system is programmed or set, in this way the setting signals are easy to manage effectively, and fixed additional functions may also be activated. The special configuration of Pedal Interface II makes it unnecessary to adjust the hardware and software associated with standard engine management. This makes Pedal Interface II suitable for use on all types of vehicle. It can also be configured by authorised personnel to meet the needs of a wide range of applications.

Configuration diagram



*May only be installed in vehicles which have been previously checked and approved by Siemens VDO Automotive (Service & Special Solutions business unit).



Technical specifications

Control unit

• General	Inverse polarity and overload protection
• Nominal voltage	12 V and 24 V
• Operating voltage	8 V to 32 V
• Operating temperature	-40°C to +85°C (in acc. with IEC 68-2-38)
• Protection class	IP 44 (must be installed inside vehicle)
• Vibration and temperature tests	IEC 68-2-36, IEC 68-2-14
• Standards	Approved in accordance with EU Directives 95/54 (EMC) and 92/24 (speed limitation)
• Diagnostics	RS 232 interface for diagnostics
• Inputs and outputs	33
• Configuration and test tool	Via dongle with USB interface

Accessories

Remote control handset for external engine-speed regulation

Operating temperature	-40°C to +105°C
Protection class	For use in protected environment only

For further information about VDO visit the website at www.vdo.com.

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