The information system for the periodic technical inspection
Modern vehicle tests to preserve the safety benefits of intelligent vehicles

All you need to know about the 21st century PTI

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MANUFACTURER-AGNOSTIC VEHICLE COMMUNICATION
- Support for all standard bus systems and communication protocols e. g. CAN, K-Line, Ethernet

MULTIPLEXER
- Coordinates the necessary pin allocation in the OBD connector to match the current vehicle
- Suitable for all types of vehicle

Illuminated OBD connector
- Suitable for vehicle classes M1, M2, M3 and N1, N2, N3, L
- Lights up dark areas such as the footwell to help locate the OBD socket

ACCELERATION AND GYROSCOPIC SENSOR
- Measures rotational speed
- Measures acceleration values
- Can be used to measure dynamic deceleration
- Can be used for suspension testing

Analog-to-Digital Converter (ADC)
- Measures electrical voltages
- Monitors on-board voltage
- Detects adaptation losses
- Monitors own voltage in battery operation

WIRELESS MODULE
- Provides full wireless functionality
- Can connect to other equipment

Bluetooth
- Available as an option

Operating Voltage
- Operating with OBD on-board power supply (12 V or 24 V)
- Charging over OBD on-board power supply (12 V or 24 V) or via the supplied 230 V power supply
**MODERN VEHICLE TESTING**

Vehicle technology has been developing at an astounding pace in recent years. More and more vehicles are equipped with electronic safety systems. And electric and hybrid vehicles are becoming increasingly popular. To keep up with these developments, the complexity of periodic technical inspection (PTI) has also had to increase.

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The **PTI-Adapter** is a modern scan tool developed by PTI inspectors, for PTI inspectors, one that is absolutely essential for carrying out the modern periodic technical inspection.

**THE PTI-Adapter**

The PTI-Adapter is a compact, robust and universal testing and deceleration measurement device for the periodic technical inspection. Together with the FSD.PTI 21 software application, it enables the PTI inspector to both communicate with the vehicle’s electronics via the electronic vehicle interface and measure the vehicle’s dynamic parameters.

The PTI-Adapter optimizes a range of inspections (e.g., the braking efficiency test), and makes other tests (such as dynamic suspension testing or testing the batteries in electric or hybrid vehicles) possible for the first time.

The PTI-Adapter supports PTI inspectors in all of the **INSPECTION CRITERIA** that form part of Germany’s road traffic regulations:

- **Inspecting the installation**
  - Manipulated or missing (e.g., not replaced after an accident) safety systems can be detected quickly and reliably by determining the hardware/software version and configurations of the control units.

- **Inspecting the efficiency**
  - Vehicle internal electronic messages can be detected by the PTI-Adapter and used in other processes, for example as reference values. A braking efficiency test based on the reference braking force, for example, ensures an effective and efficient inspection of a vehicle’s braking system. If the PTI-Adapter is used as a deceleration measurement device, the efficiency of the braking system can also be assessed during a test drive.

- **Inspecting the function**
  - The PTI-Adapter can be used to trigger a particular function. For example, it enables the PTI inspector to turn on the bulbs in the lighting systems from anywhere at the vehicle, making the whole process far easier.

- **Inspecting the condition**
  - The PTI-Adapter checks the condition of safety-relevant and environmentally relevant components and systems via the electronic vehicle interface. To do this, it reads the event memory from the vehicle’s control units and assigns a manufacturer-agnostic, universal error code. The internal sensors in the PTI-Adapter can also be used to check the condition of the suspension.

**ELECTROMOBILITY AND HYBRID VEHICLES**

With the increasing popularity of electric drive systems, the PTI-Adapter will soon become an essential tool for the PTI of electric vehicles. The PTI-Adapter can be used to detect factors such as defects in the regenerative braking system or the insulation within the high voltage system.