

**Product Name :**  
Pulse-Width Modulated Signals In Automotive

**Product Code :**  
LIM-CAT-L0072-00011



**Description :**

Pulse-Width Modulated Signals In Automotive

**Technical Specification :**

Pulse-width modulated signals in automotive

Interactive Course: Pulse-width modulated signals in automotive.

The course provides the basic knowledge of automotive mechatronics including pulse width modulation (PWM) and its signal image, as well as diagnostics in case of faults. The course consists of an application software with animations and an experimental unit with pre-fabricated variable circuits. The course covers theory and practical experiments by using software based virtual instruments in connection with the interactive, PC based training hardware.

Learning contents:

Knowing the principle of pulse-width modulation, List use cases of PWM in automotive engineering, Power matching with PWM, Explain the difference between direct and pulsed current, Measurement of PWM signal characteristics: frequency, amplitude, pulse-width (duty cycle), edge and signal shapes, Identify control and working circuits, Measurement of PWM signals, Diagnosis of PWM-controlled components  
Including: Experiment unit with FET amplifier and indicator LEDs.

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## Laboratory instruments manufacturers India

