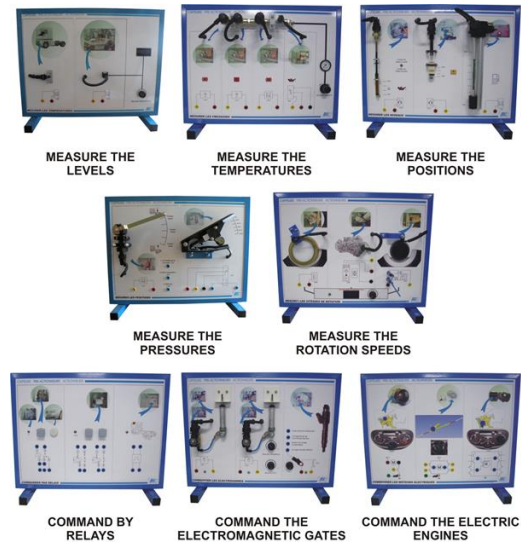




## SENSORS PRE-ACTUATORS ACTUATORS



### Présentation :

Those simulators are constituted of stands (same dimensions) to put on desks.

This allows students to realise specific activities:

- Measure data (pressure, temperature, level, position, rotation speed...).
- Command of the electromagnetic gates (« all or nothing » (TOR), “cyclic ratio opening” (RCO), and “call maintenance” with charge condensing).
- Command of the engines (DC current and step by step).

### Pedagogic activities :

- **STUDY OF SENSORS :**

<p>- <b>MEASURE THE LEVELS:</b> sensor for the oil level with warm wire, sensor for the water level with electrodes, sensor “reed” for the fuel level. <b>Réf : CPA-MN</b></p>	
<p>- <b>MEASURE THE TEMPERATURES:</b> sensors for the external air temperature and for the water temperature (thermistors C.T.N.). <b>Réf : CPA-MT</b></p>	
<p>- <b>MEASURE THE POSITIONS:</b> sensor for the position of the accelerator pedal (angular potentiometer), sensor for the height of the under-body (inductive). <b>Réf : CPA-MPO</b></p>	

- **MEASURE THE PRESSURE:** sensor for the tank pressure (drop alert) sensor for the fowa pressure (raise alert), sensor for the air supply pressure, sensor for the oil pressure (piezo-electric).

**Réf : CPA-MPR**



- **MEASURE THE ROTATION SPEED:** sensor for the wheel rotation speed ABS-EBS (inductive with associated target), sensor for the vehicle speed (hall effect), sensor for the wheel rotation speed ABS (magneto-resistive).

**Réf : CPA-MVR**



- **STUDY OF PRE-ACTIONNEURS :**

- **COMMAND THE ELECTROMAGNETIC GATES:** brake (fowa exhaust) « all or nothing » (TOR), “cyclic ratio opening” (RCO), and “call – maintenance” with charge condensing.

**Réf : CPA-CE**



- **COMMAND BY RELAY:** traditional, double or temporized.

**Réf : CPA-CR**



- **STUDY OF ACTUATORS :**

- **COMMAND THE ELECTRIC ENGINES:** DC current and step by step.

**Réf : CPA-CME**



The student is going to acquire the following competences:

- Identify the different components as well as different electric and pneumatic connections (supply pressure, delivered pressure and exhaust pressure)
- Locate the different components (according to photos).
- Know main technological functions.
- Measure and/or visualize the inlets and outlets to valid the system working.
- Analyze the different adjustments.
- Reproduce data found by the electronic calculators (temperature, engine rotation speed ...)

- acquire complementary knowledge and methods for a functional and structural analyze for the different electronic systems.
- Assimilate essential knowledge and know-how to carry out a diagnosis or a maintenance action.

**Those simulators comply with the requirements from BEP to BTS (French National Education). A complete technical and pedagogic documentation is supplied on CD-ROM.**

**general characteristic :**

<u>Energy (V) and (bar) :</u>	<u>Dimensions (mm) :</u>	<u>Weight (Kg) :</u>
Electric 24/50 Hz Air supply 6 to 8	Length= 600 Width= 250 Height= 450	20

**Options :**

- Slip-cover
- cupboard
- electric supply (24V - 12A) totally secure
- USB data acquisition and exploitation Car&Box



**Distribution:**

The simulators can be sold separately.

CAP    BAC PRO    BTS    SUP

**POIDS LOURDS - AUTOMOBILE - AGRICOLE**