

## Functional simulation of operation of a vehicle and telematics system



### Purpose of use

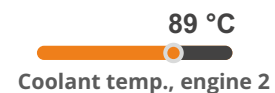
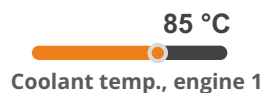
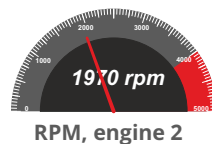
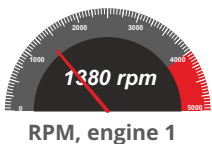
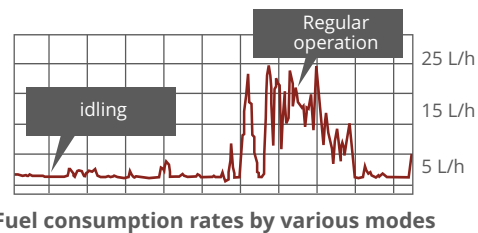
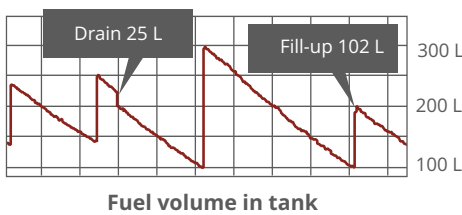
1. Educational research activities of students (“Land transportation”, “Railroad machinery” and “Water transportation” fields of study).
2. Testing onboard equipment and telematics service server.
3. Training telematics equipment installation specialists and telematics software developers.
4. Demonstrating telematics system functionality (presentations, exhibitions, show-rooms).

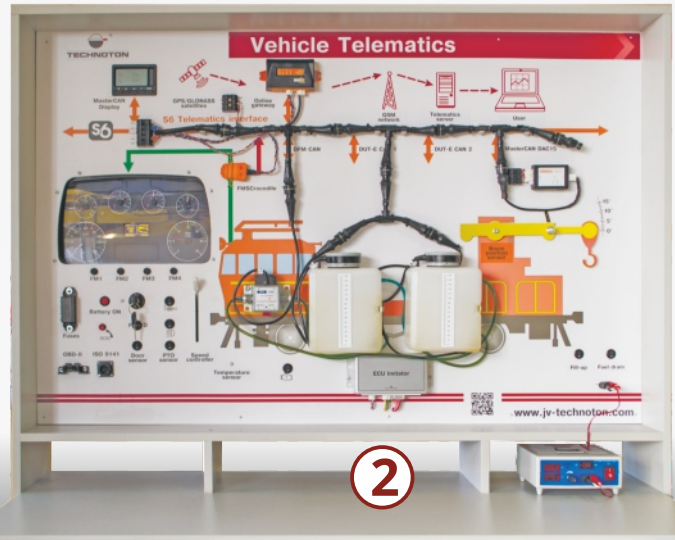
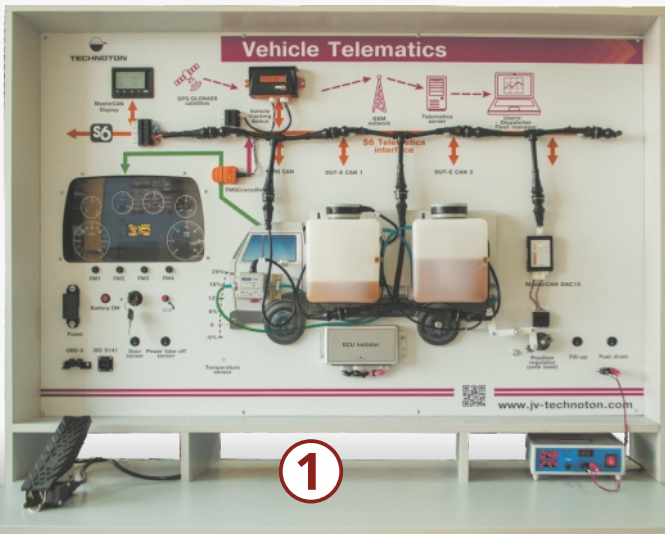
### Monitored parameters

- fuel volume in each tank;
- fuel temperature;
- presences of water in tank;
- fuel consumption rate in engine’s fuel lines, by various consumption modes: idling, optimal, overload;
- engine operation time, by various modes;
- engine RPM;
- oil temperature and pressure;
- coolant temperature;
- axle load;
- lifting equipment operation;
- ignition key position;
- onboard electrical network voltage;
- doors opened/closed;
- alarm button pressed;
- position, route, speed of movement etc.

**100+**  
parameters

### Data in telematics service





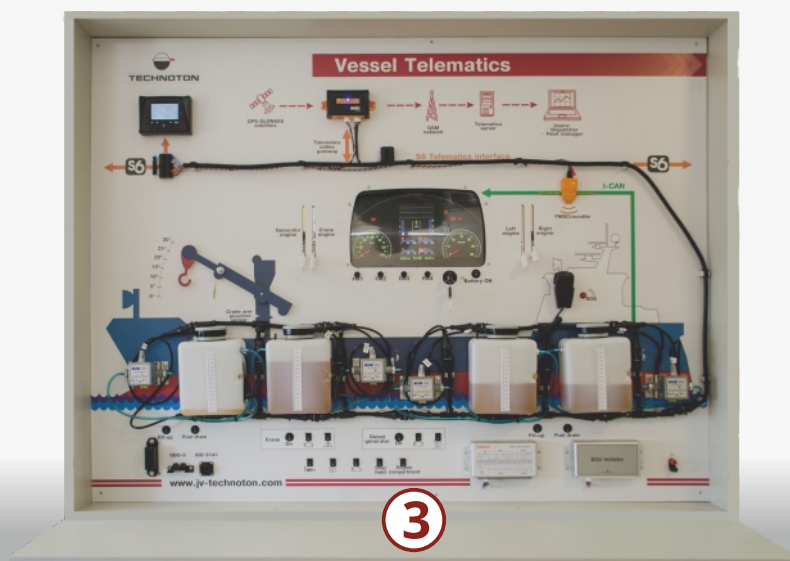
### Types of trainers

1. "Vehicle telematics: truck" Size (WxHxL): 1440x940x600 mm
2. "Vehicle telematics: track machine» Size (WxHxL): 1440x940x600 mm
3. "Telematics: watercraft» Size (WxHxL): 1640x1260x600 mm

### Basic equipment of trainer\*

- Main panel with controls;
- electrical and hydraulic connectors;
- ignition switch;
- fuel tanks with pumps;
- fuel flow meters;
- Contactless FMS gateway;
- CANbus analysis and imitation device;
- Euro 4 truck dashboard;
- on-board computer;
- shift sensor;
- alarm button;
- GPS vehicle tracking device (telematics unit);
- Telematics service access;
- Service adapter for configuring fuel level sensors and fuel flow meters.

\* Exterior and trainer equipment may differ from the pictures and the list above.



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