Lifetime test system for accelerator pedals

Product description

The system is used for simultaneous automatic service life testing of up to four accelerator pedals. On a base plate there is the holder for the specimens and the operating units.
The drive is integrated in the test fixture.
The complete system includes a climatic chamber with which ambient temperatures of -40°C to +120°C can be simulated.

Field of application

The system is used for the development, testing and production control of accelerator pedals.

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Software | Electronics | Sensors | Fixture | Control technology

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Technical data

Test bench/device

- Basic mechanical design with test specimen holder for up to four test specimens
- Test specimen holders for different test specimen types can be quickly changed
- Drive of the test specimens by means of integrated crank linkage or gear rack climatic exposure test cabinet
- Measuring and testing technology in separate 19" rack
- Protective housing for connection to the climatic cabinet

Software

- Multiprüf MP-WIN under Windows
  - process control
  - measured value recording
  - measured value evaluation
  - Characteristic recording of the test specimens within the temperature ranges
  - extensive evaluation and statistics options
- Menu-driven and configurable endurance test runs and climate cycles

Scope of testing

- Measurement of switch-on times and switch-on/switch-off thresholds
- Continuous on-line monitoring of all accelerator pedals during dynamic movement
- Actuating force measurement for each individual test specimen within a temperature range
- Position detection via rotary encoder on the actuating shaft, resolution 0.025°.
- 75 analog multiplexed measuring channels, differential 2 measuring ranges 0...3 V/0...30 V, resolution
- 16 bit = 0.1 mV/1 mV, f = 1 kHz

Input-/visualisation units

- Keyboard
- Monitor

Dimensions/Transport

- ca. 2100x600x600 mm (WxHxD)

Test time

- Individual, depending on test scope

Exemplarly device type

- 297 1304

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