

Tachograph test on roller brake tester operating under ENERGOTEST system

Rolling tachograph test on roller brake tester can be a test of authorities or rather tachograph calibration. It can be carried out on each new or reconstructed roller brake tester operating under Energotest system.

The ENERGO TC (Energotachograph Control) is the new generation of the tachograph and speed limiter controlling device.

The device has many advantages:

- EU conformity
- unit is mounted in industrial case with battery
- easy handling
- fast and accurate measurement
- basic device for test and tachograph calibration
- safe use for the operator.

Advantages of tachograph test on roller brake tester:

- independent from weather conditions
- there is no need for test road, this is a place-saving solution
- both roller brake tester and tachograph tester ensure two-function utilization.

It operates according to modern testing technology. It can be installed to the software ENERGO LINE, storing, printing of the measured data and data sending is solved under the software.

The communication between ENERGO TC and the roller set is wireless, there is no cable in the driver cockpit anymore. Thanks to Bluetooth connection between the units work is easier and safer. The measuring unit can be equipped onto all roller brake testers operating under Energotest system. Beside analog tachographs all EU-compatible digital tachographs can be measured. In the ENERGO TC's menu there is an opportunity to select between the mobile and stationary test.

ENERGO TC functions:

- determination of impulse (W) value of digital and analog tachographs.
- measurement of effective rolling circumference on roller brake tester.
- control of distance counter on roller brake tester.
- adjustment of devices DTCCO, MTCCO and all other tachographs accepted in EU.
- automatic test diagram of MTCCO and all analog tachographs accepted in EU.
- download of the main storage of digital tachographs.
- determination of clock deviation (in secundum) of devices MTCCO1324, MTCCO1390, TSU1391 and all analog tachographs accepted in EU.
- optionally it is able to test Motometer tachograph.

The devices and the brake tester have to be calibrated according to the official directions. We can provide calibration certificates under special request.

The device has manufacturing calibration. The calibration of the device and the roller brake tester is done by authorized organization or service company from time to time determined by the regulations of the given country.



Package contents:

- 1 CTCII test device
- 2 Device case
- 3 CD with operating instructions for the CTCII (German, English and French)
- 4 Test cable DTCO 1381/ EFAS/ SE5000/ SmarTach©
- 5 Test cables, MTCO 1324 and 1390
- 6 Power supply connection cable 10 – 30 V DC
- 7 Test cable SE2400
- 8 Mains adapter 100 – 240 V AC

Testing process:

To mobile test you need the content of this suitcase only, but in case of measuring on roller braker tester the following items are requested:

Roller speed transducer (2 pcs)



Two roller speed transducers are used to the test. They have to be equipped to the left and right rolling units. They count the rotation of the chain-gear. These two values are sent to the connection box where their average will be calculated, and this average is transmitted to the central unit. The locations of the transducers are pre-established in advance on each brake tester Energotest.

Infra transducer



Due to light-reflecting sticker fixed to the tyre the infra cyclometer is able to sense the turns (it counts ten rotations). The given values are transmitted to the central unit as well. In case of analog tachograph device, the cables belong to the tachograph's type have to be used to the test.

In case of analog tachograph you have to use the cable belongs to the tachograph.

In case of digital tachograph device, these cables are not suitable to the testing process, one cable is necessary only.

TECHNICAL FEATURES

Technical features of CTC II:

Display:	4 row LCD with background light, 20 characters per row, 5 mm character height
Keyboard:	32 alphanumerical and function keys
Connections:	Bluetooth, RS232, K-Line, KWP 2000 protocol
Power supply:	10,5 - 30 V DC, internal battery
Input:	4W on the average, max. 12W
Operating temperature:	+5 - +40 Celsius
Measuring range of pulse "w" value	2 000 - 50 000 I/km (range depends on the tachographs)
Measuring way:	10 - 1 000 m, standard: 20 m
Test speed to measurements "w"	manual 0 - 15 km/h, automatic 3 - 25 km/h
Manufacturer:	VDO – Continantal group

Technical features of brake testing bench UNI-BD for passenger cars and commercial vehicles:

Maximum axle load	13 t
Measurement speed:	2,18 / 4,39 km/h
Measurement range	0 – 30 / 0 – 6 kN
Air brake pressure measurement range	0-10 bar
Measurement accuracy	±1 %
Supply:	3x400 V
Fuse:	3 x 50 A

The following new brake tester manufactured by Energotest are suitable to rolling tachograph test:

- ✓ Energotest HF
- ✓ Energotest HF-BD
- ✓ Energotest UNI
- ✓ Energotest UNI-BD

Of course, the brake tester can be a reconstructed brake tester with Energotest CAN BUS measuring system and Energoline software as well.