

ENGINE TORQUE

MEASURED VALUE AMPLIFIER

Intended purpose

The engine torque measured value amplifier measures and calculates the phase angles of two torque signals. The signals that result control two torque displays.

Configuration of the device and technical functionality

The device consists of nine contact part assembly groups, a transformer and a connector-panel sub assembly on which the linearity and zero adjustment potentiometers are installed. The device is hermetically sealed. The device operates in connection with electromagnetic instrument transformers (torque transmitters) which are installed on two engines. These instrument transformers respond to the torque of the accompanying engine, and transfer two signals (torque and reference) per channel, as well as a temperature compensation signal to the engine torque measured value amplifier.

The signals that are sent are converted, compared and amplified in the device, and the resulting signal is sent to the torque display.



Services provided by AUTOFLUG

- Servicing and maintenance (cleaning and lubrication of non-electrical and electrical parts)
- Repair (replacement of components and assembly groups)
- Testing (for example, resistance test, insulation test, drop compensation test, functional test)
- Conservation
- Planning and purchasing of spare parts
- Obsolescence management

The verification of the device requires the availability of a variety of different testing instruments, including:

- Engine torque testing instrument
- Resistance measuring bridge
- Transistor testing instrument
- Insulation testing instrument
- Resistance decade
- Oscilloscope
- Anode-bend voltmeter
- Heat cabinet
- Ultrasound cleaning device