

FUEL LEVEL SIGNAL TOTALIZING DEVICE – LOW LEVEL MONITORING & DISTRIBUTION UNIT

Intended purpose

The fuel level signal totalizing device issues a low fuel level warning in the event of specific minimum volumes in the fuel tanks of the fuselage tank groups being fallen short of. In addition, on reaching a specific total fuel level, the automatic de-fueling of the internal wing tanks is initiated. The device also serves as a distributor unit for input terminal voltages and signal currents from and to all of the fuel level indicators.

Configuration of the device and technical functionality

The fuel level signal totalizing device is hermetically sealed and filled with a helium-nitrogen mix. The potentiometer for setting the threshold voltage is situated on the front of the device. The printed circuit boards and the relay assembly group in the interior of the device accommodate all the electronic switching circuits.

The fuel level signal totalizing device is a device with three functions which replaces the original LLW control unit and the distributor unit. The third function serves the purpose of measuring the distribution of fuel in the fuselage tank and the necessary discharge of fuel which is in the airfoils.

Services provided by AUTOFLUG

- Servicing and maintenance (for example, dismantling and assembly of assembly groups, testing of assembly groups in removed state, servicing of printed circuit boards, cleaning and lubrication, subsequent improvement of protective varnishing, drying out, rinsing and filling of the device, calibration and settings)
- Repair (for example, troubleshooting and rectification, replacement of components)
- Functional checks and tests (for example, testing the switching logic for the low fuel level warning, testing of the test inputs and sensor fault detectors)
- 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:

- Insulation testing instrument
- LLW/AWHR tester
- Digital voltmeter
- Milliohmmeter
- Vacuum furnace
- Mass spectrometer
- Helium leak testing instrument

