

The proposed method for checking the operation of the pressure relay of an aircraft static pressure detector in ground testing consists in placing the pressure relay in a test chamber, producing, in the test chamber, the pressure equal to the atmospheric pressure at the maximal flying height of the aircraft, heating the outside surface of the static pressure detector casing to the temperature equal to that at the descent of the aircraft and maintaining the said temperature in the testing process, increasing the pressure in the testing chamber according to the characteristic describing the atmospheric pressure variation as a function of height in the descent of the aircraft, measuring the pressure in the testing chamber, the pressure sensed by the detecting element of the pressure relay, the temperature of the outside surface of the static pressure detector, and the temperature within the area of the detecting element, and then determining the time instant when the pressure relay operates. The proposed method provides for the possibility to simulate, in a maximal possible degree, the conditions, which characterize the aircraft descent process, in ground tests and, as a result, to increase the accuracy in determining the parameters used for adjusting the pressure relay.