

**UNIVERSAL HARDWARE AND SOFTWARE COMPLEX
FOR AERODYNAMIC EXPERIMENTAL DATA ACQUISITION SYSTEMS**

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For ensuring effective utilization of the new wind tunnel AT-304, its control system is created by experts of ITAM and DTIDT SB RAS. With the help of the system, preparation of working gas, the wind tunnel operation, and acquisition of technological data during the experimental runs will be provided.

A universal hardware-software complex which forms a basis of the control system is developed for management of the wind tunnel. With the use of this complex, a possibility of control of the wind tunnel operation through special algorithms with the prescribed time intervals is realized. The wind tunnel tests are carried out with the use of an automated workplace.

So far, a hardware-software complex is elaborated and tested. The support of this work by RFBR (grant No. 11-07-00483-a) is much appreciated.

Keywords: the hypersonic wind tunnel, the automated data input, management of wind tunnel work, real time scale, the controller, ADC.