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Automatic station of environmental control

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Abstract. A prototype of an automatic station of environmental monitoring has been designed and manufactured. In the design advanced technologies tested at NPO Energia when developing space technology were used. The general view of the station is presented in the Figure.

The station provides monitoring of water and atmosphere parameters, can be set stationarily or transported by telephone cables or a radio channel (including a satellite as well).

The station power supply is provided from the electric mains and in distant and difficult of access regions from an off-lain solar array wind facility or micro HEPP.

An equipment complex of the station has been developed and manufactured to measure the concentration of harmful gases in the atmosphere, the chemical composition of aerosols, to provide a detailed radiation analysis.

The equipment characteristics are given, the concept of using stations in large cities and around ecologically dangerous productions is discussed.

Key words: environmental monitoring, automatic station, monitoring of atmosphere, monitoring.