

The Hardware Structure of the Monitoring System for the Romanian Anti-hail Rockets Launch Units

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Abstract— A national anti-hail system was established in Romania in 1999, and recently was established a National Authority. Presently, in Romania an anti-hail system is functioning, and it is desired to implement a large scale National Anti-hail System. This paper deals with the design of a monitoring system for an anti-hail system. It is proposed a specific system for Romania anti-hail network, which completes the existing systems with specific information in order to identify the best solutions for both coordination and launch. The main topics refer to the overview of system, the main blocks of the Master and Slave modules, the experimental results regarding functioning of the system are fully discussed. Finally, some conclusions are collected in section 5. In order to achieve this system, the following important issues are considered: the use of communication via GPRS, monitoring the parameters throughout all operating period, log-values, status and alarms, operator actions logs, friendly graphical interface and the generation of tabular and graphical reports for any period. The interface of the monitoring system is underlined in section 2 where are presented the main functions of the command buttons. The system enables: an increased efficiency by shortening the time for action, a good organization and a high degree of security.