

# The Power System Detector Control System of the Monitored Drift Tubes of the ATLAS Experiment

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The Detector Control System (DCS) of the power supply of the Monitored Drift Tubes (MDT) detector of the ATLAS experiment at CERN will be presented. The principal task of DCS is to enable and ensure the coherent and safe operation of the detector. The interaction of detector experts, users or even shifters with the detector hardware is performed via DCS. This is the responsible system of monitoring the operational parameters and the overall state and status of the detector, the alarm generation and handling, the connection of hardware values to databases and the interaction with the Data Acquisition system. The MDT subdetector was treated as a Finite State Machine hierarchy while the operation is done on a top level human interface.

The Power System (PS) for the High & Low Voltage of the DCS in ATLAS is implemented using the SY1527 power system with the Easy crate configuration from CAEN. The readout was done via an OPC server.

**Primary author:** ALEXOPOULOS, Theodoros (National Technical University of Athens)

**Presenter:** ALEXOPOULOS, Theodoros (National Technical University of Athens)

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