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Pressure control algorithm improvements in the Gas System Control Software for TOF/MPD

The currently used pressure control algorithm inside the TOF / MPD detector chambers has been prepared for testing only one module at a time. Currently, one to four modules are used, therefore it is necessary to adapt the control algorithm to the new conditions. At first, PID controller settings should be tuned to the optimum values, for all the four corresponding setups - from one to four detector modules connected simultaneously. New, improved algorithm should have implemented chosen settings of the PID controllers in the software code. Additionally, User Interface of the Gas System Control Software should be expanded of the possibility to choose number of connected modules.

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