NA62 is the follow-up of the NA48 experiment, in the SPS North Area of CERN, and reuses a large fraction of its detectors and beam line equipment. Still, there are many new vacuum devices in the beam line (including pumps, valves & gauges), which required a thorough modification of the control system and a large number of new controllers, many of which were custom-made.

The NA62 vacuum control system is based on the use of PLCs (Programmable Logic Controllers) and SCADA (Supervisory Control and Data Acquisition). The controllers and signal conditioning electronics are accessed from the PLC via a field bus (Profibus); optical fibre is used between surface racks and the underground gallery.

The control hardware was completely commissioned during 2014. The nominal pressure levels were attained in all sectors of the experiment. The remote control of all devices and the interlocks were successfully tested.

The NA62 control hardware upgrade was a complex task that required the active participation and effort of several groups at CERN, including engineers, technicians, external workshops and industrial partners.

The cabling and control equipment deployment took place in spring 2014. The full system was commissioned during summer 2014. The measured pressure levels meet the nominal specifications in every sector. Hardware alarms are fully operational.