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Calibration and operation of total pressure gauges and residual gas analysers for UHV beamlines at CERN.

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The vacuum systems of CERN amount to 120 km of beam lines; half of that length needs UHV to fulfil the particle beam requirements. Along the accelerators, dedicated pressure gauges and residual gas analysers are deployed for online gas density monitoring. The calibration of such instruments is an important activity for which new set-ups have been installed and are now operated. We will describe the applied calibration procedures for both total pressure gauges and residual gas analysers. Statistical details will be given for sensitivities. In addition, the main causes of breakdown will be explained. The CERN strategy for vacuum instrumentation will be finally presented.

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