



■ Use Case: Compressed air in cleanroom technology

The customer distributes and installs cleanrooms and climate chambers. Such air-filtered rooms are required for special manufacturing processes in numerous industries, e.g. in the pharmaceutical industry, biotechnology or medical technology, microelectronics, the food industry, semiconductor production or aerospace.

Challenge:

The requirements for the quality of this filtered air for sensitive production and work areas are becoming increasingly stringent. The customer competently supports users in all questions of cleanroom and ventilation technology with comprehensive services as well as innovative products.

Part of this service is the measurement and analysis of the compressed air used in the clean rooms or climate chambers. The compressed air is fed from a central compressed air generation and treatment system via a pipe system to the climatic chambers and clean rooms.

Until now, the customer purchased these measurements and analyses externally, as a service from external laboratories. The disadvantage: The generated data were too inaccurate, since usually only average values were formed. The time lag between measurement and data provision was also too long. A faster and more flexible solution had to be found.

Solution:

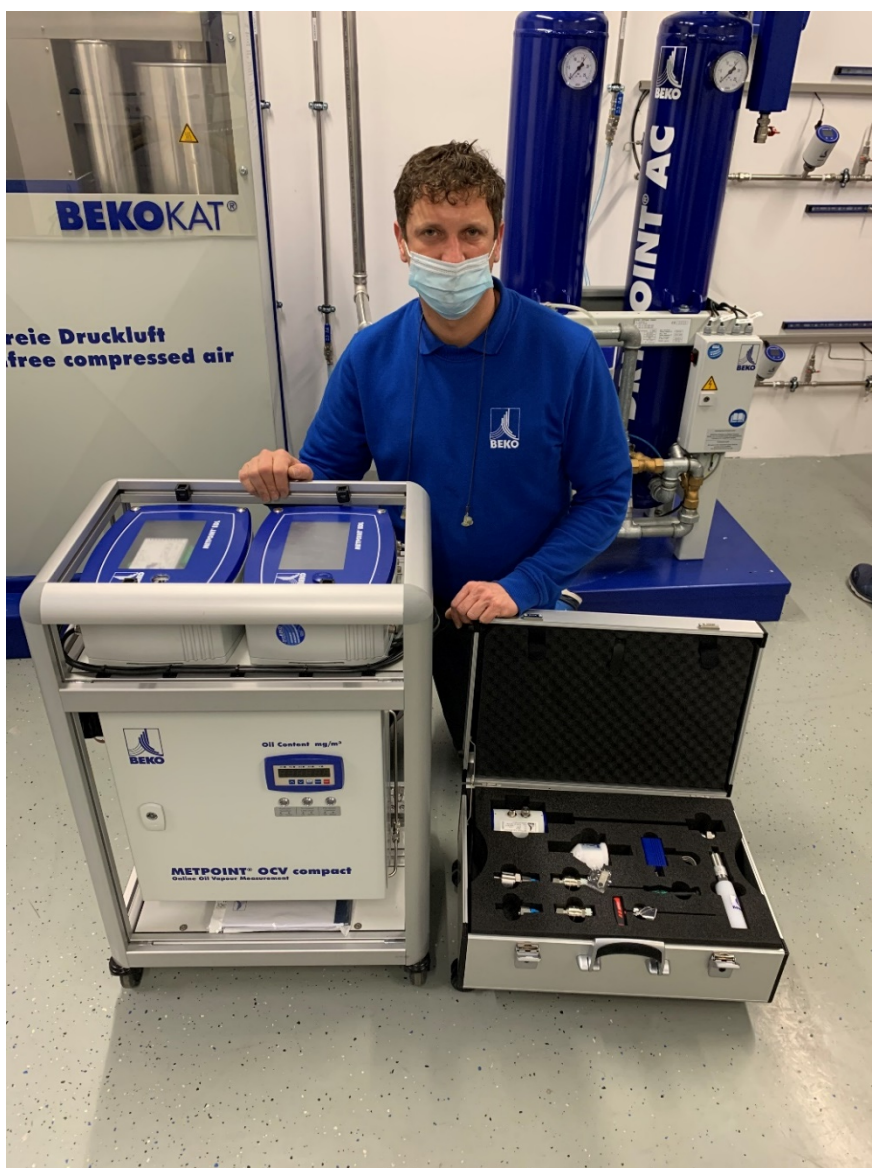
After in-depth market research and detailed cost-benefit analyses, the customer opted for the METPOINT MCA OPS mobile measurement system together with the METPOINT MEQ cloud solution for location-independent transmission, storage and evaluation of the acquired data.

The METPOINT MCA mobile measuring system is installed on site for a period of time agreed between the customer and the user. The system records the residual oil content of the compressed air, the pressure dew point, the volume flow, the operating pressure, the temperature and the particle count. During this measurement phase, the customer can already track and evaluate the measured values obtained in the METPOINT MEQ Cloud and, if desired, provide the user with a daily updated analysis of the compressed air quality.

Conclusion:

The customer is faster and more accurate in his measurements. The METPOINT MCA measures continuously, the METPOINT MEQ provides the measurement data directly in a protected cloud. This means that the measurement can be monitored and supervised from a distance.

The customer gains competence, can be active at different locations and can provide even more individual advice. His offer regarding cleanroom and air conditioning technology and any measures required to improve the compressed air quality can be matched directly to the measured values and placed with the user immediately after the measurement and analysis has been carried out.



Products:

- METPOINT® MCA OPS mobile measuring system
- METPOINT® MEQ, data wizard and cloud solution for holistic recording of compressed air systems

Edition: USC0024-INT. April 2021