vali.sys

we prove clean air

YOUR PARTNER FOR CLEANROOMMONITORING

Welcome

Quality is our top priority!

Thomas Christen
ceo and owner

«What sets us apart the most is our innovation and our products, which are characterized by their long service life and Swiss quality.»

I have been a passionate part of vali.sys since 2006. Back then, I was hired as the first technician and have had the privilege of calling the company my own since 2019.

From a three-person company, vali.sys has grown into a business with 35 employees and a subsidiary in Egypt with 40 employees. It fills me with pride to see that we have been able to build long-term customer relationships through high-quality work.

With the experience I have gained over the years in the cleanroom industry and at vali.sys, I know exactly what our customers' requirements are. My goal is to continuously develop vali.sys, to recognize and integrate new technologies at an early point in time in order to always offer our customers future-proof, innovative and efficient solutions.

Contents

Headquarters

Innovative Swiss company in the idyllic Zürich Oberland

Clean air is more than just a technical challenge. Our mission is to provide you with a smoothly functioning system to monitor your air quality.

As a globally established company in industrial automation and system control, we set high standards in the cleanroom monitoring sector. Our SCADA applications and monitoring systems enable precise real-time data monitoring so that you have full control over your sensitive production processes at all times.

For over 20 years, customers have been relying on our validated, GMP- and ISO-compliant monitoring solutions, which are characterized by maximum precision, safety and reliability. Our agile and solid project management ensures that every solution is perfectly tailored to your individual requirements.

Your satisfaction is what keeps us going. By working closely with you and our trusted sales partners, we develop innovative and sustainable solutions that offer you many benefits today and in the future. Whether you need consulting, planning, installation, real-time monitoring or regular maintenance and calibration - we are at your side as a reliable partner.

In the core

We live the vali.family

Roberto Vitali
chief operating officer

I ensure that day-to-day and project business runs smoothly and that our customers always receive the best solutions.

I am proud to be part of a team that impresses with its commitment, innovation, and expertise on behalf of vali.sys.

An important part of my work involves working closely with our teams to coordinate tasks efficiently and ensure that every customer request is handled individually and with the utmost care.

Together, we lay the foundations for the successful implementation of every project – from planning to the support of our highly complex systems. Our strength lies in making optimal use of the diverse skills of our employees. This enables us to develop efficient and tailor-made solutions together – even for the most demanding projects.

It is precisely this combination of team spirit and creative thinking that makes our work at vali.sys so special and motivates us to give our best every day.

Where innovation meets trust

For us, our references are not just completed projects - they stand for teamwork, high-quality work and long-term partnerships.
We see ourselves not just as a supplier, but as a reliable partner who supports its customers far beyond the project.

Every successful project is the result of close collaboration in which we understand complex requirements, develop individual solutions and ensure the highest quality standards.

We see ourselves as a competent partner that supports its customers far beyond the project phase. From the first consultation to the long-term support and maintenance of the systems and their components, we are at your side with expertise and engagement. We even support you during shutdowns and ensure that everything runs smoothly.

Whether complex cleanroom solutions, high-precision monitoring systems or customized calibration concepts - we have already successfully implemented numerous major projects for leading companies.
We are proud that these projects have resulted in long-term partnerships from which both you as a customer and we as a supplier and service provider can benefit.

Project Hospital

370 Environmental sensors
30 Particle counters
combined in one system over
several buildings

Project Biotech

140 Environmental sensors
42 Particle counters
interfaces such as OPC UA or SQL
automatic report generation

Project Injection Molding

80 Environmental sensors
24 Particle counters
in a system distributed over 10
buildings

Project Aerospace

40 Environmental sensors
32 Particle counters
4 Central vacuum pumps
Europe's largest cleanrooms

Project Scientific Research

52 Environmental sensors
8 Particle counters
60 External signals
including lock control

Project Radio Pharmacy

290 Environmental sensors
20 Particle counters
180 Displays
combined in one system

Our services - Your added value

We are at your side from consulting to project planning of the cleanroom, installation of the sensors, annual maintenance and calibration, right through to decommissioning.

Our services - Your allround carefree package for the highest quality.

At vali.sys, we offer you a comprehensive solution for reliable cleanroom monitoring, calibration and maintenance - all from a single source. From initial planning and implementation to regular maintenance and calibration, we ensure that your systems run smoothly and meet the highest quality standards.

Our calibration laboratory guarantees precise measurements and standard-compliant tests, both in our laboratory and directly on your premises. With our mapping service, we ensure that climatic conditions in storage, production and transportation environments are optimally monitored to reliably protect your products. As an official distributor of Lighthouse, we supply you with high-precision particle counters and the appropriate accessories for seamless monitoring.

Whether maintenance, calibration or technical support - with vali.sys you have a reliable partner at your side who offers you an all-round carefree package for maximum safety, efficiency and quality.

Consulting

Competent advice from experts with years of experience in the cleanroom industry.
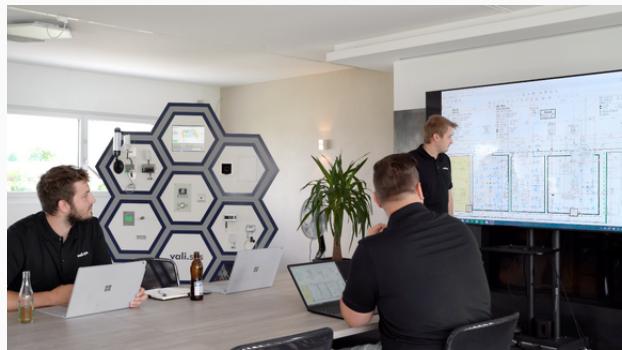
System planning & construction

Planning and construction of your turnkey system.
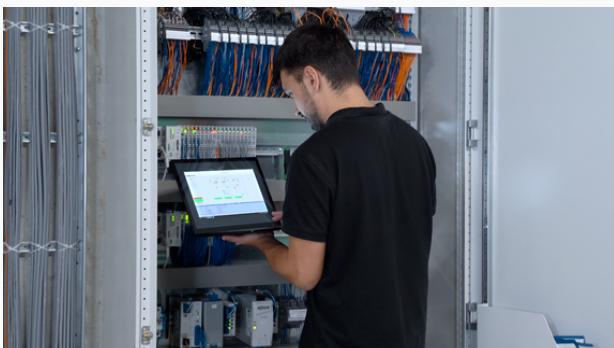
System Qualification

Comprehensive system check during FAT and after commissioning.

System maintenance

Complete system check at the intervals you specify.

Sensor calibration

Calibrations on site or in the calibration laboratory.
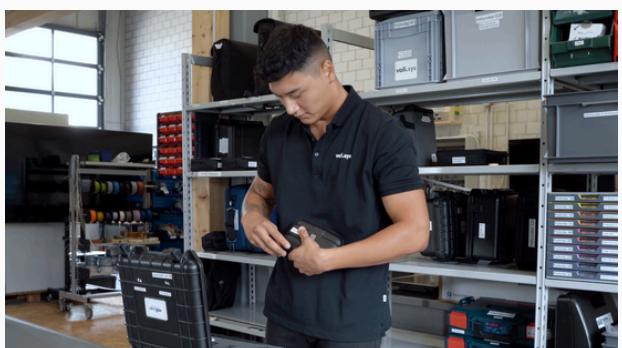
Mapping

Measurement of the prevailing spatial conditions.

Your project

Effective communication is the key to a successful project.

Through consistent project documentation, a broad-based project team and an optimized project process based on the GAMP5 model, we guarantee the success of your project at all levels.

We are convinced that clear project management, honest and direct communication and structured meetings significantly influence and increase efficiency and success.

Transparency and honesty are particularly important to us.
We stand for partnership-based cooperation in which we openly address challenges and work together to find the best solutions.

1 The system development (URS / FDS).

2 The project kick-off meeting.

3 The milestone and project meetings.

4 The Factory Acceptance Test (FAT).

5 The end-of-project meeting.

Structured development for customized solutions

New projects at vali.sys start according to the proven stage-gate model. Interdisciplinary teams work together right from the start to minimize risks and weak points in the concept phase - especially in complex cleanroom projects.

As soon as our monitoring systems enters the realization phase, the precise implementation begins:

- Creation of electrical schematics and circuit diagrams with ePlan
- Individual software configuration in vali.mon (overviews, parameters, sensor locations)
- Construction of the switch cabinets & performance of functional tests
- Testing and programming of the alarm systems & limit values

Each of these phases is accompanied by standardized test routines and protocols. Before delivery, the comprehensive FAT (Factory Acceptance Test) is carried out to ensure that the system meets the highest requirements.

The successful FAT is followed by the next decisive phase: installation and commissioning at the customer's premises. Here too, our experts work according to clearly defined processes to ensure smooth integration of the systems into existing structures. After installation, extensive tests are carried out according to IQ / OQ protocols to ensure that all functions work reliably and that the specified limit values are precisely adhered to. Only when all tests have been successfully completed does the final acceptance take place - a further step with which we guarantee the highest quality and customer satisfaction.
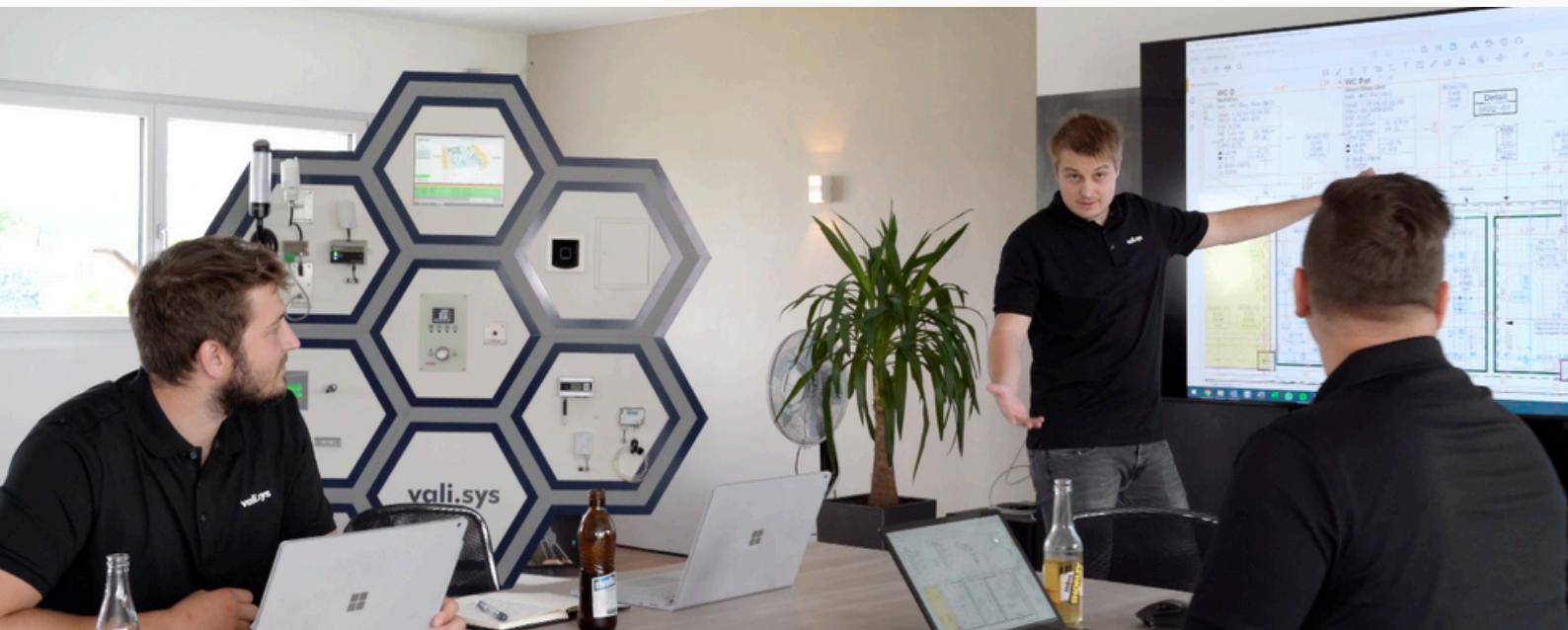
After the project is before the project

Once your project has been successfully completed, we will continue to provide you with our full range of services.

Expansion

After the project is before the next expansion or adaptation. Requirements are constantly evolving, which is why our systems have a modular structure and can be flexibly expanded or adapted to new circumstances at any time. Whether additional sensors or extended functions, we ensure that our system always meets your needs. This ensures that your monitoring system remains future-proof, efficient and state-of-the-art.

Audit

Our documentation and qualification documents are structured and detailed so that they can withstand any official or customer audit. We ensure that all relevant requirements are met and that you have access to complete and standard-compliant documentation at all times. If required, we will support and accompany you before and during an audit and are available to you at any time with our expertise.

Training and support

Our support team is there to help you, with every challenge with comprehensive assistance and expert advice. If you have technical questions or unexpected problems, we will work with you to find the best solution. We also offer practical training courses that are individually tailored to your needs. Our experts not only impart in-depth specialist knowledge, but also ensure that your team knows how to use our systems safely. Whether basic training, in-depth workshops or specific on-site briefings - we provide you with the knowledge you need for a smooth operation.

Graphical structure of our system

particle counter

pressure

temperature / humidity

temperature

alarm lamp

more signals

All signals are sent to the control cabinet in analog or digital form.

control cabinet

SMS-Alarm

The control cabinet sends the data to the monitoring system.

mail-alarm

Thanks to real-time data monitoring, alarms are triggered immediately if limit values are exceeded.

Server

vali.mon software

remote access

firewall

data storage

client computer

vali.mon

Precise monitoring for the highest demands

What is vali.mon?

The vali.mon is our validated monitoring system that has been specially developed to meet the high demands of the cleanroom and pharmaceutical industry. It guarantees that the recorded data is accurate and unalterable by subjecting it to strict validation processes.

This means:

- **Validation:** Validated data is verified and traceable information for which there is documented evidence that it has been recorded, processed and stored accurately, consistently and following regulatory requirements such as 21 CFR Part 11 and GAMP 5.
- **Usability:** A clear display and simple navigation allows you to conveniently read out your data at any time.
- **Custom alarms:** The limit values are individually adapted to your products and requirements. As soon as a limit value is exceeded, you receive an alarm notification by email, phone call, text message or visually.
- **Flexibility:** Data can be recorded, displayed and processed in different ways depending on customer preferences.

Your benefits:

vali.mon convinces through:

- **Adaptability:** The system is completely flexible and tailored to your individual wishes.
- **Quality & security:** Our software ensures reliable collection and management of validated data in accordance with 21 CFR Part 11 and GAMP5, so that the highest compliance and security standards in regulated environments are met.
- **Long-term utilization:** Automated data recording and long-term storage create trust and security.
- **Intuitive operation:** Clear displays make vali.mon particularly user-friendly.
- **Full support:** Our support team will also provide you with competent assistance in the event of challenges or questions.
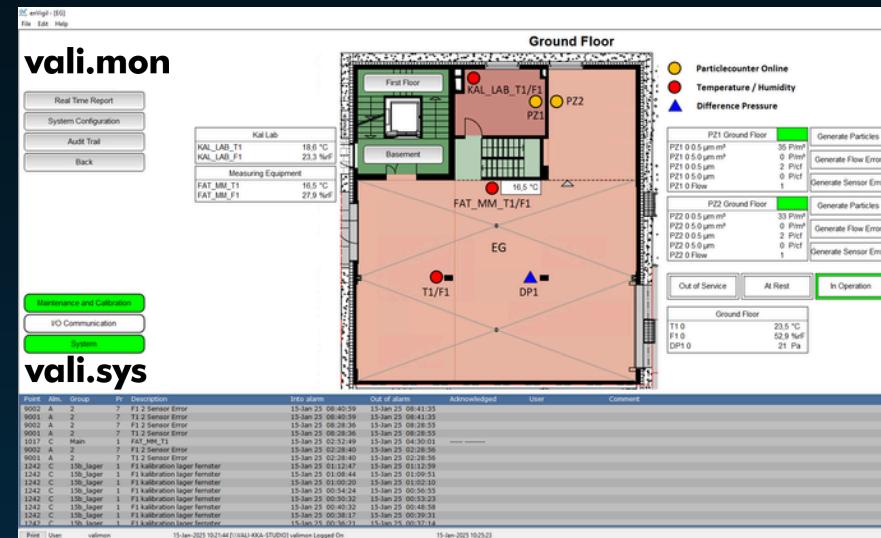
Real Time Report - All data in one view

All relevant data from your processes can be viewed in real time. Critical parameters such as temperature, humidity or particle count are monitored and displayed live. Thanks to the real-time report, you can act proactively, minimize risks and ensure the quality of your processes at all times.

Alarm Report - Maximum security

React quickly if necessary. Our notification system will alert you as soon as specified limit values are exceeded.

Calibration Laboratory

Precision for your measurements

The choice is yours: we calibrate your devices either in our own laboratory or conveniently on your premises - so the entire process remains in one hand.

If necessary, your devices and sensors will be precisely adjusted. The results of the calibration are documented transparently: From the initial calibration ("as found") to the calibration after adjustment ("as left") - all in a detailed certificate.

Particle counters

We also offer calibrations for particle counters in our in-house laboratory as well as through our mobile calibration laboratory for fast and flexible on-site support. This is how we ensure that your particle counters have worked reliably to date.

System

- Watchdog
- UPS function
- Alarm lamp function
- Alert function
- IO node function
- Sensor function check
- Pump maintenance
- Hose check
- Flow check
- Creating backup copies

Calibration

- Temperature and humidity sensors (incl. combination sensors) Factory calibrations (-90°C - 155°C) (0%, 10% - 95%rh)
- Pressure and acceleration sensors (0 - 4 bar / 1 - 15 g)
- Voltage and current meters (VDC/mA)
- Flow sensors (e.g. for air velocity)
- Particle counters
- CO_2 sensors
- Film welding tongs

Safety for your sensitive products - precise mapping for reliable conditions

Whether it's a climate-controlled cabinet, storage room or transport container - stable climatic conditions are crucial for protecting moisture- or temperature-sensitive products. Deviations can not only impair product quality, but also cause high costs and damage to your image.

Our mapping services help you to identify critical environmental conditions at an early stage and ensure that your processes comply with the required standards. Should unexpected deviations occur, our precise measurements allow you to react quickly.
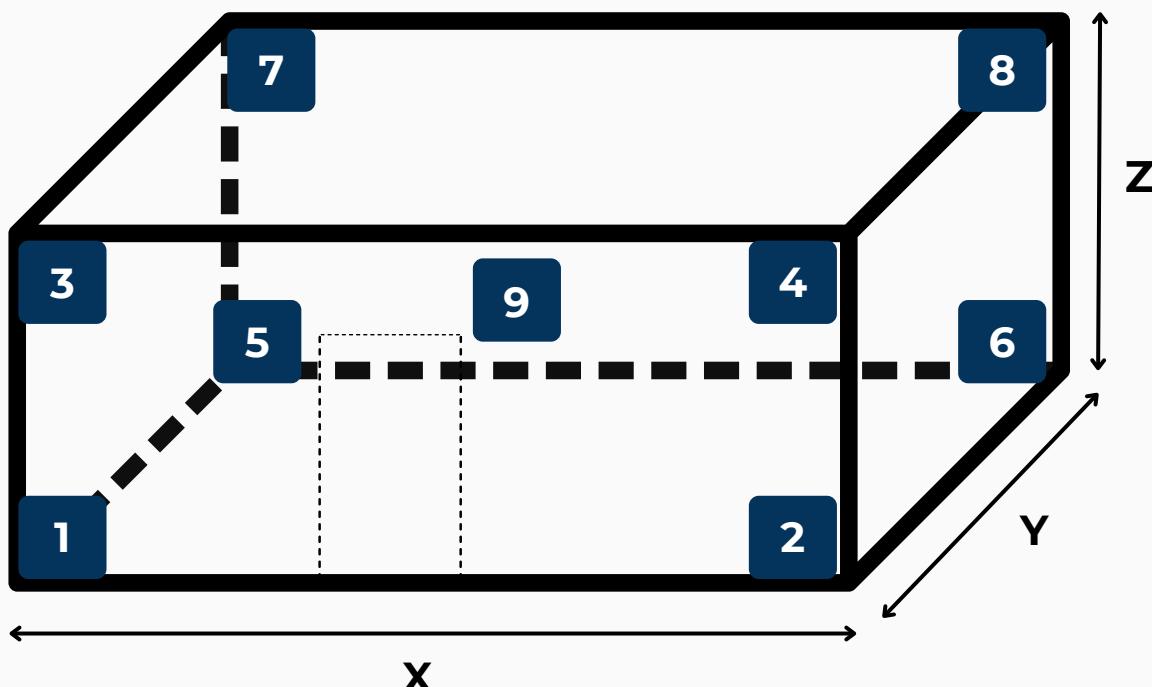
Mapping-Services

- **Individual advice:** Definition of requirements according to IQ, OQ and PQ.
- **High-precision measurements:** Mapping data loggers are ISO 17025 or factory calibrated. Range from -90°C to +100°C (temperature mapping). 0°C to 50°C / 10% to 95%rh (temperature and relative humidity mapping).
- **Installation & distribution:** Optimum positioning of the sensors for exact measured values.
- **Seamless monitoring:** Thanks to the use of data loggers, we enable you to continuously record the climatic conditions.
- **Detailed analysis:** Evaluation and identification of the "worst case" of the cabinet or room climate.
- **Standard-compliant documentation:** Creation of all required reports in PDF format, digitally signed.

Data logger - Precise measurement and reliable monitoring

What is a data logger?

A data logger records environmental parameters using a sensor. Once the data has been collected, it can be transferred to a computer for further analysis and processing.

Measuring ranges

- Temperature
- Relative humidity
- Light
- Acceleration
- CO_2
- VOC
- Pressure

Data transmission

- Bluetooth
- USB interface
- Radio
- WLAN

## Why are data loggers indispensable?

- No measurement gaps during maintenance or calibration.
- Uninterrupted recording ensures process continuity.

Areas of application and advantages

- Flexible and easy handling.
- Low effort, high time and cost savings.

Our top sellers:
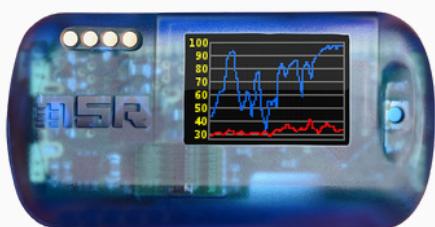
MSR 145W2D
- Temperature
- Humidity
- Light
- Air pressure
- Acceleration

Tinytag Ultra 2
- Temperature
- Humidity
- -25 to +85°C
- 0 to 25% rH

Tinytag Talk 2
- Temperature
- -40 to +85°C

MSR: messmatik.ch/shop.php   Webshops   Tinytag: geminidataloggers.com

Quality
without compromise

Reliable standards for the highest demands

At vali.sys, quality is our top priority. Our experienced quality team ensures that all processes are standardized and continuously optimized in accordance with the strict guidelines of GMP (Good Manufacturing Practice) and ISO certification (ISO 9001).

Our structured quality management system ensures that every activity is planned, executed and comprehensively checked. This not only guarantees consistently high quality, but has also created long-term trust for over two decades.

Innovation and quality - hand in hand

For us, high-quality, quality management means more than just complying with standards - it is the key to innovative solutions that make the decisive difference for our customers.

- New technologies are tested on an ongoing basis and integrated into our projects once they have been successfully completed.
- Internal audits identify potential sources of error in order to continuously improve processes, assembly and commissioning.
- Efficient processes increase customer satisfaction by ensuring smooth workflows and reliable systems.

Reliable quality right up to the final test

After installation and commissioning at the customer's premises, further extensive tests are carried out, which are documented in the IQ/OQ qualifications (Installation Qualification & Operation Qualification). These are mandatory in the pharmaceutical and medical industries and ensure that all processes comply with GMP guidelines.

Our quality department is divided into four specialized areas:
- QA (Quality Assurance): Recording and processing of customer complaints using an 8D report
- QE (Quality Engineering): Development of new measurement methods
- QC (Quality Control): Testing and implementation of new measurement methods in daily operations
- QM (Quality Management): Further development of systems, training, supplier qualifications & management reviews
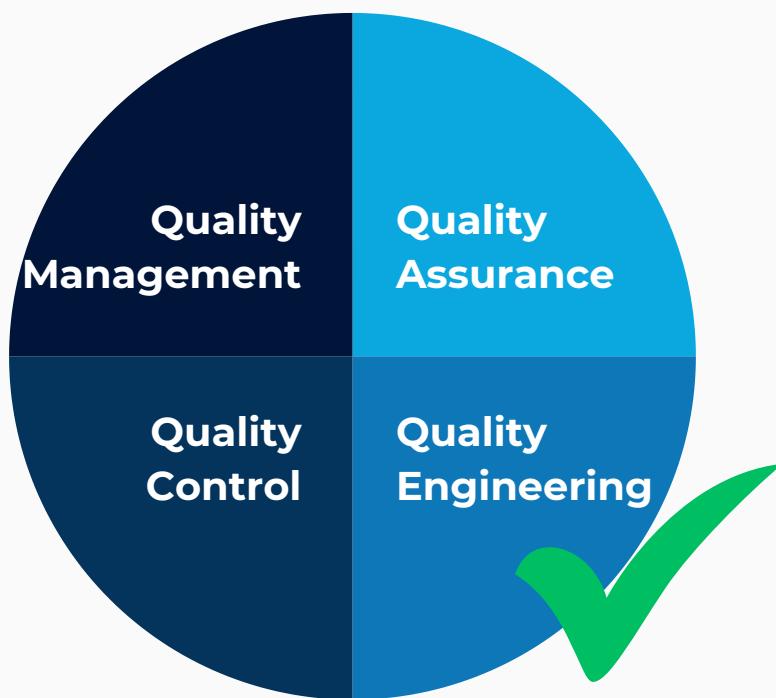
Quality that you can also feel in the support

If challenges arise when using our software or hardware, our competent support team is ready to help. Together with the quality department, we will quickly and efficiently find solutions to ensure the smooth operation of your systems.

- Our experts are highly trained and available to you at all times
- Problems are analyzed directly and solved sustainably
- Your success and satisfaction are our top priority

Put your trust in our quality management - for reliable systems, optimized processes and long-term customer satisfaction.

Particle counter for every need

As an official distributor of Lighthouse Worldwide Solutions in Switzerland, we offer you a wide selection of high-precision particle counters, matching accessories and a customized calibration service for a wide range of applications. Thanks to our close partnership with Lighthouse, you benefit from our expert advice and first-class service.

Whether remote devices, portable particle counters for the highest cleanroom requirements or liquid particle counters for liquid measurements, we supply you with the latest measurement technologies for a wide range of applications. In addition, we offer the entire range of accessories, from isokinetic sampling probes to external vacuum pump technology and other equipment, to optimally support your measurements.

Apex Z3 & Z50

Apex R5, 3, 02, 03 & 05

Apex P3 & P5

Solair 3100 & 5100

Liquid Sampling System

Handheld 3016 & 5016

Long-standing partnerships

Long-term and trusting partnerships are essential for us - not only with our customers, but also with our suppliers. We rely on close cooperation based on trust, quality and consistency. Only through strong and reliable partnerships can we maintain our high standards and develop individualized solutions that meet the high demands of our customers.

Head Office Switzerland

vali.sys ag
Rosengartenstrasse 17b
8608 Bubikon
Switzerland

Contact

Telephone: +41 43 295 92 50
Mail: info@valisys.swiss
Web: www.valisys.swiss
LinkedIn: @valisys ag

Subsidiary Egypt

vali.sys – swiss engineering services
one kattameya, bldg #114 unit #15
ring road – cairo, egypt

Contact

Telephone: + 20 1129 840 345
Mail: egypt@valisys.swiss
Web: www.valisys.swiss/ar
LinkedIn: @valisys ag