

PRODUCTIVITY | QUALITY | SECURITY



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INFICON combination gauges on 300 mm semiconductor tool

Emergency response with HAPSITE portable GC/MS

FOR MEASUREMENT, ANALYSIS AND CONTROL, ONE NAME ALWAYS YIELDS MORE. INFICON.

**We strive to be your partner
in understanding your critical
business issues, then translating
that knowledge into innovative
products and integrated solutions
that enhance productivity,
quality, and security.**

Dramatic changes in manufacturing, environmental, and security concerns are creating a need for better process monitoring, gas analysis, gas leak detection, and hazardous chemical analysis. As a leading developer, manufacturer and supplier of innovative instrumentation, critical sensor technologies, and advanced process control software, INFICON is helping you to meet these challenges.

Original equipment manufacturers (OEMs) and end-users rely on INFICON products and expertise to provide process-intelligent information for timely decisions in the complex manufacturing of semiconductors, flat-panel displays, magnetic and optical storage media, and precision optics. INFICON also provides essential gas leak detection products for air conditioning/refrigeration manufacturing and repair, as well as toxic chemical analysis instrumentation for emergency response and environmental applications. Throughout the world, INFICON solutions are increasing productivity, raising the bar on quality, and protecting people and the environment.



INFICON product training session

COMMITTED TO WORLDWIDE CUSTOMER SUPPORT

Our customer support centers, strategically located around the world, ensure you have global access to comprehensive sales, installation, training, application support, and repair services. Your order or service request is handled in an accurate and timely manner, with updates provided, if needed. Our technical support personnel understand your process and operational requirements and can translate this knowledge into a competitive advantage for your business.

To optimize your use of our advanced technology, we offer new-user and expert training in a classroom setting or as tailored individual instruction. All of the training includes hands-on experience to meet your specific needs. These may be conveniently scheduled on-site at your facility or at one of our locations worldwide. We also offer seminars that will expand your knowledge of our products and their applications to your real-world problems. And customized service agreements are available to fit your requirements.

HEADQUARTERS: Syracuse, New York, USA

MANUFACTURING FACILITIES: Syracuse, New York, USA;
Balzers, Liechtenstein; Cologne, Germany;
Aaland Islands, Finland

SALES AND SERVICE OFFICES: Worldwide network of direct sales and manufacturer representatives—visit www.inficon.com for a complete list of locations.

EMPLOYEES: 700

ACCREDITATION: ISO 9001 registered;
selected locations ISO 14001 certified

MARKETS SERVED:

- Semiconductor
- Storage media
- Optics
- Flat panel display
- Refrigeration and air conditioning
- Military
- Emergency response
- Industrial hygiene
- Environmental assessment, characterization, and monitoring

STOCK LISTING: Our common stock is traded on the SWX Swiss Stock Exchange and the NASDAQ National Market under the symbol IFCN.



Preclean particle monitoring with Stiletto particle detector

FabGuard process diagnostic software for

MAXIMIZING PRODUCTIVITY AND YIELD FOR SEMICONDUCTOR AND VACUUM COATING PROCESSES

MEETING THE NEED FOR GREATER PROCESS CONTROL

INFICON technology solutions and process expertise directly address the urgent cost and productivity improvements demanded by semiconductor manufacturing. Whether you're an end-user or OEM, we're meeting your need to analyze, control and improve manufacturing with market-leading *in situ* metrology and process control hardware and software, high-performance leak detectors, vacuum measurement products, and vacuum components.

INFICON integrated process metrology and control systems include advanced spectroscopic sensors such as residual gas analyzers, as well as particle and photoresist detectors. The Stiletto® particle detector, for example, provides unprecedented protection against defect-induced yield loss by monitoring every wafer *in situ* to detect submicron particulate contaminants.



Transpector® XPR3 provides high-sensitivity in situ gas analysis at extended pressures.



advanced process control

UL1000 Fab Helium Leak Detector

PROVIDING MEASUREMENT, ANALYSIS, AND CONTROL

Our Integrated Process Metrology (IPM) system uses our FabGuard® Sensor Integration and Analysis System to collect and analyze all the data provided by *in situ* sensors and the tools themselves. This provides real-time process control and fault detection, and gives you new insights into ways to increase productivity.

Our helium leak detectors, such as the INFICON UL5000 and UL1000 Fab, meet the most critical and demanding leak checking applications. Defining speed and accuracy in leak detectors, these highly sensitive products offer testing flexibility in all measurement ranges.

INFICON vacuum gauges provide you with precise pressure measurement and control throughout the vacuum range. Our ceramic capacitance diaphragm gauges deliver higher accuracy, stability, and longer life than conventional metal technology. Other INFICON combination gauges combine multiple technologies in a single unit to accurately measure a wide range of pressures with reduced complexity and cost. INFICON also produces highly reliable valves and fittings for vacuum system engineering.



The TripleGauge™ BCG450 combines the advantages of three sensor technologies into a single, economical package.

ENABLING THE NEXT GENERATION OF THIN-FILM PRODUCTS

For vacuum-coating applications, INFICON's long-standing expertise leads the field with thin-film deposition monitors and controllers that help you more effectively produce flat-panel displays, fiber optics, data storage media, surgical lighting, and many other products.

Among the newest is our Cygnus® Thin-Film Deposition Controller with the unique ability to precisely control the ratios of up to six materials. This is critical to manufacturing the organic light-emitting diodes (OLEDs) used in the newest flat-panel displays.



Ecotec® Refrigerant Leak Detector for quality control

ASSURING QUALITY WITH LEAK DETECTION FOR REFRIGERATION/AIR CONDITIONING MANUFACTURING AND REPAIR



The HLD5000 Refrigerant Leak Detector assures product quality in the production of refrigeration systems.

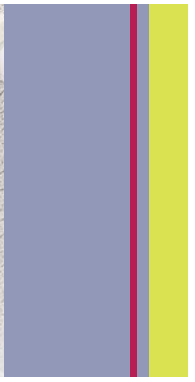
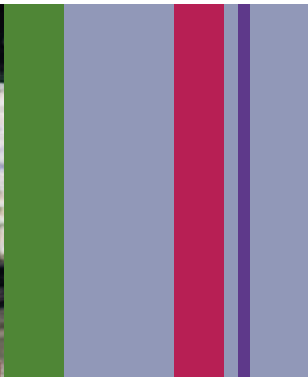
KEEPING PROFITS FROM LEAKING AWAY

INFICON refrigerant and helium leak detectors are the worldwide leading brand for quality control at refrigeration, air conditioner, appliance, and automotive manufacturing facilities.

As product quality, safety, and environmental concerns lead to more stringent leak testing requirements, INFICON helps you respond by providing a complete line of highly sensitive leak detectors in portable, mobile, handheld, and stationary configurations.

INFICON high-performance helium leak detectors set the standard for reliability and ease of operation in a wide range of applications—from pinpointing small leaks in high-vacuum systems to heavy-duty industrial quality control. They quickly reach test conditions and deliver accurate, final results in all measurement ranges.

INFICON refrigerant leak detectors are highly sensitive for subassembly and mid-production quality testing, as well as final testing to ensure system integrity.



TEK-Mate® Refrigerant Leak Detector for field service technicians

HELPING SERVICE TECHNICIANS BETTER SERVE CUSTOMERS

Field service professionals in air conditioning/refrigeration and automotive rely on the superior performance of our reliable, convenient, and affordable service tools. The INFICON toolbox of market-leading products for service technicians includes innovative refrigerant leak detectors, combustible gas leak detectors, refrigerant recovery systems, refrigerant charging scales, and vacuum pressure gauges. With INFICON service tools, you are assured of having the right tool to get the job done quickly and accurately, saving you time and money.

The INFICON toolbox features:

- D-TEK™ Select Refrigerant Leak Detector, a cordless unit with innovative infrared technology that makes it extremely sensitive to all refrigerants—and only refrigerants.
- GAS-Mate™ Combustible Gas Leak Detector, which detects hydrocarbons and other gases with twice the sensitivity of competing models.
- Wey-TEK™ Refrigerant Charging Scale, which increases productivity by letting you easily weigh and charge from the same platform.
- Vortex™ Refrigerant Recovery Machine, specially-designed to provide rapid recovery of all refrigerants.



The D-TEK Select uses innovative infrared technology to deliver enhanced sensitivity, selectivity and longer life.



HAPSITE in military use

Innovative SituProbe™ for better processing

IMPROVING SECURITY WITH ON-SITE CHEMICAL IDENTIFICATION AND MONITORING SYSTEMS FOR ENVIRONMENTAL HEALTH AND SAFETY

ELIMINATING THE WAIT FOR POTENTIALLY LIFE-SAVING ANSWERS

Leveraging the expertise that made INFICON the market leader in semiconductor gas analysis, our portfolio of state-of-the-art environmental products provide on-site detection, identification, and monitoring of volatile organic compounds (VOCs) in air, water, and soil. INFICON technology is being used throughout the world for emergency response, chemical warfare agent detection, early detection of chemical contamination in water source and distribution systems, hazardous waste site investigation, and industrial hygiene.

Gas chromatography/mass spectrometry (GC/MS) sets the benchmark for the most accurate identification of organic chemicals of any analytical technique. HAPSITE® chemical identification systems are the only man-portable GC/MS for on-site identification of chemical warfare agents, toxic industrial chemicals, and non-toxic chemicals in air, water, and soil. Getting such immediate, laboratory-quality results right in the field gives you the



HAPSITE is the only man-portable GC/MS for fast, on-site analysis of chemical warfare agents, toxic industrial chemicals, and non-toxic chemicals.



Productivity
of water samples
Activity



On-site testing for VOCs with HAPSITE



answers you need to make better and faster decisions about critical health and safety issues.

The HAPSITE capabilities are extended with our dynamic purge and trap SituProbe for better processing of water samples or a headspace sampling system for fast and easy soil and water sampling.

SAFEGUARDING OUR AIR AND WATER

For spot analysis or continuous monitoring of VOCs in air or water, INFICON Chemical Monitoring Systems use gas chromatography (GC) technology to quickly produce lab-quality results in the field. The INFICON CMS200 is a portable system that performs complex air and water analyses under the most demanding conditions. A modified EPA purge and trap protocol, enabled by our unique SituProbe, allows the system to handle even difficult water samples with ease.

For continuous online monitoring of VOCs in water, the CMS500 delivers reliable, real-time measurements while operating automatically and unattended. The CMS500 acts as an early alert to protect water source and distribution systems against intentional or accidental contamination.



The CMS500 for continuous online monitoring of water source and distribution systems.



ENHANCING PRODUCTIVITY WITH INNOVATIVE PRODUCTS FOR INDUSTRIAL PROCESSES

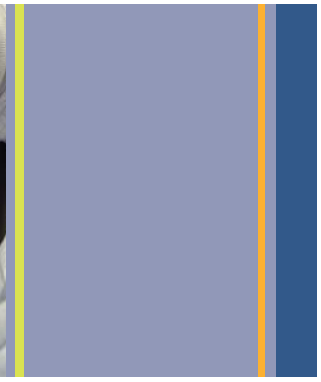
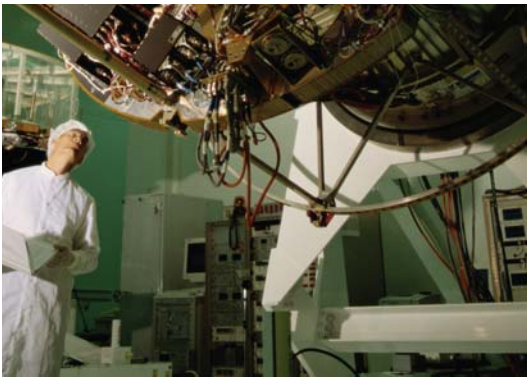
SUPPLYING INSTRUMENTATION FOR GENERAL VACUUM PROCESS

As a global leader in vacuum instrumentation for the semiconductor industry, INFICON must meet the most stringent requirements for high product performance, low cost, and superior logistical support. That experience allows us to provide world-class vacuum products to a wide variety of other markets such as automotive, aerospace, heat-treating, analytical instrumentation, food packaging, and research and development.

INFICON helium leak detectors integrate easily into many industrial systems to test the integrity of vacuum chambers and pressurized systems. INFICON vacuum gauges enable reliable monitoring of gas pressures during manufacturing processes. In addition, our broad line of vacuum components and expert advice ensure a reliable solution for every vacuum engineering application. To reach this broad array of industrial applications, we sell our products to large manufacturers who resell them as private-label products under their own brand.



INFICON leak detectors and vacuum gauges support a broad array of industrial applications.



Cleanroom manufacturing of INFICON crystals for thin film instrumentation

DELIVERING CUSTOMER SATISFACTION THROUGH RESPONSIVE MANUFACTURING



We employ flexible manufacturing lines that are designed and staffed to build to customer demand. Furthermore, our Total Quality Management and ISO registration programs stress team-driven, continuous improvement and comprehensive documentation of process and product specifications. Due to the design of the lines, the accuracy of the documentation, and the flexibility of our employees, we manufacture more rapidly and efficiently to meet your specific demands. Combined with aggressive supply chain management, we are able to reduce manufacturing cycle-times to offer you on-time delivery of high-quality product.

INFICON major manufacturing sites, from top to bottom: Syracuse, USA (Global Headquarters); Cologne, Germany; Balzers, Liechtenstein



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Visit our website for contact information and sales offices worldwide. www.inficon.com

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Due to the INFICON continuing program of product improvements, specifications are subject to change without notice.

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