

## **IVAM Product Market „High-tech for Medical Devices“ at COMPAMED 2017**

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Left heart support system (Firma em-tec GmbH Finning)

COMPAMED has become the leading international marketplace for suppliers of medical manufacturing. The trade fair, which takes place every November and is co-located to MEDICA in Dusseldorf, has been steadily growing over the past

years and shows that medical technology remains a rapidly growing market.

The demand for miniaturization in medical devices continues to grow rapidly. Especially in devices for mobile diagnostics, therapy and laboratories, reliable high-tech solutions are needed.

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With a number of 53 international exhibitors, the Product Market "High-tech for Medical Devices", initiated by the IVAM Microtechnology Network, is the largest joint pavilion at COMPAMED – and fully booked. The exhibitors come from Germany, Switzerland, France, the USA, the Netherlands, Austria, Great Britain, Greece and Spain. The IVAM area is located in hall 8a and showcases various solutions for medical technology – all in 700sqm of space. The key technologies to these solutions are microtechnology, nanotechnology, photonics, MEMS and advanced materials.

This year, the international companies and research institutes present miniaturized components and high-tech microelectronics, smart sensors for digitalization, solutions for systems integration, ultra-precise tool-making and functional coatings as well as measuring and screening processes that constantly make medical technology products smarter, safer, cheaper and more reliable.

Additionally, the COMPAMED HIGH-TECH Forum, organized by IVAM, offers insight into research and development of the exhibited processes and products, explains technology trends and provides information on relevant foreign markets. This year, for instance a France session will take place. The COMPAMED HIGH-TECH Forum offers international presentations on all trade show days in hall 8a, booth G40.

Sensor technologies for diagnostics, monitoring and therapy

ams is a global leader in the design and manufacture of advanced sensor solutions. The CMOS Imaging Sensors presented by ams Sensors Germany GmbH feature global and rolling shutter, low noise, high dynamic range and high frame rates through high-speed on-chip ADC and digital interfaces. ams' image sensors serve a broad range of applications for medical technology and other markets. The ams portfolio also includes miniature camera modules for endoscopy-like applications, namely the award winning NanEye displaying at the COMPAMED show.

CiS Forschungsinstitut für Mikrosensorik GmbH develops technologies for customized optoelectronic, piezoresistive and impedimetric sensors. Among the novelties are optical sensors for continuous monitoring of the blood pressure without a cuff. The sensor uses methods of pulse wave analysis in a photoplethysmogram and is manufactured on the MORES technology platform of the research institute. Blood pressure data will be determined based on a patented mathematical algorithm. Also presented the first time at COMPAMED are piezoresistive MEMS pressure transducers, which can be used in invasive clinical sensors.

As a leading manufacturer of physical, chemical and biological sensors, Innovative Sensor Technology IST AG presents its sensor portfolio, consisting of thin and thick film platinum and nickel RTD temperature sensors, thermal mass flow sensors, capacitive humidity sensors, humidity modules, conductivity sensors and biosensors. These sensors are characterized by their accuracy and consistency in various measurement conditions. They are applied in measuring instruments for medical and various other applications.

In biosensors, enzymes are enabling the specific measurement of particular substances even in complex mixtures like whole blood. Cost-effective manufacture and factory-calibration enable single-use applications with highest application reliability. By using Jobst Technologies GmbH's flow-through biosensor chips, glucose and lactate can either be analyzed with a rate of 48 samples per hour in analyzers, or be monitored simultaneously like in the first continuous glucose & lactate monitor for critically ill patients (EIRUS, Getinge).

Sensirion AG, expert for safe and reliable medical applications, is presenting its innovative sensors for the measurement and control of gas and liquid flows, differential pressure, humidity, temperature and gas (VOC) at COMPAMED. This year's product highlights are a new liquid flow sensor for the measurement of ultra-low flow rates in drug delivery applications (infusion) and single-use and autoclavable flow sensors for proximal flow measurements in ventilation and anesthesia. Both sensors are available as versions for neonatal and pediatric applications.

Silicon Microstructures (SMD), Inc.'s Cobra product line is the first commercially-available pressure sensor with attached cable that fits into 1-French devices. The sensors are small (220 microns wide), stable (drift in 37C saline

## Portrait

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