

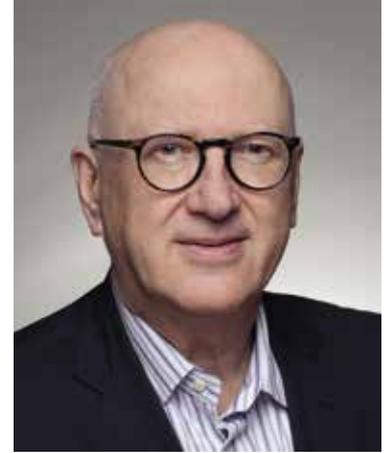
Connecting the world

With its Global headquarters in Schaffhausen, Switzerland, TE Connectivity is a \$13 billion global industrial technology leader that offers a broad range of connectivity and sensor solutions, proven in the harshest environments, enabling advancements in transportation, industrial applications, medical technology, energy, data communications, and the home. John Mitchell, SVP & General Manager, Sensor Solutions at TE Connectivity, highlights the acquisition of Silicon Microstructures Inc., in October 2019.

In 1941, Aircraft Marine Products (AMP) was founded with a focus on solderless electrical connections for quick and removable wire connection used for aircraft and ships. After the war time boom the company had to adapt to post war economy and in 1956 the name was changed to AMP Incorporated. In 1999, the Company was acquired by Tyco International that separated in 2007 into three publicly independent companies; Covidien Ltd, Tyco Electronics Ltd, and Tyco International Ltd. On March 10, 2011, Tyco Electronics Ltd changed its name to TE Connectivity, which the company felt was more relevant to its

position as a connectivity and sensor component manufacturer.

As an industrial technology leader, TE Connectivity's purpose today is to create a safer, sustainable, productive and connected future. That means, continually innovating, enabling customers in profound ways to offer smarter, more integrated solutions through a customer-first culture and commitment to deliver first-time-right success. For over 75 years, the Company has worked with world leaders and market-changing entrepreneurs, solving complex challenges through advanced sensing and integrated connector



*John Mitchell, SVP & General Manager
at TE Connectivity Sensor Solutions*

technologies. Now, in the “connected everything” era,

TE Connectivity engineers around the world design to provide a better future for everyone. TE Connectivity is very much driven to co-create and provide, together with its customers, a better future through innovations in transportation, industrial applications,





HEALTHCARE IS ABOUT TIMING AND PRECISION
MEDICAL SENSORS

medical technology, energy, data communications and the home. In these areas and more, the Company innovates through its 80,000 employees—including more than 8,000 engineers—who work alongside its customers in approximately 140 countries. TE Connectivity believes that its leading talent makes it a premier partner to companies around the world.

A sensor is a device used to measure a property, such as pressure, position, temperature, or acceleration, and respond with feedback. John Mitchell is proud to say that today, TE Connectivity is one of the largest sensor companies in the world, offering innovative sensor solutions that help customers transform concepts into smart, connected creations. “Our sensors are vital to the next generation of data-driven technology,” he says.

TE Connectivity offers an unmatched portfolio of intelligent, efficient and high-performing sensor solutions to customers across a wide range of industries including automotive, medical, appliance, aerospace & defense, oil & gas, industrial and commercial transportation and

consumer applications. “Our sensor portfolio includes technologies capable of measuring most physical characteristics, including pressure, position, temperature, vibration, force/torque, humidity and fluid property, even in harsh conditions.”

Building new efficiencies into daily lives, advanced connectivity is transforming devices, machines, and networks into the integrated, responsive technology. These solutions are making possible advancements enabling the Internet of Things (IoT), 5G ecosystems, and artificial intelligence (AI). To make this happen, manufacturers are installing miniature connectors, lightweight cabling, customized antennas, and multi-property sensors to improve, increase, and integrate data processing, power distribution, signal transmission, and wireless capacity into connected cars and trains, electrified powertrains, medical devices, smart appliances, industrial robots, building systems, data centers, communications and utility networks, and more.

John adds: “We create value particularly when we co-develop solutions with our customers. Across the value chain, we are able to build creative solutions with

capabilities from the core technology all the way through to signal conditioning and the final application. Having those three building blocks in our technology and manufacturing capabilities allows us to further differentiate ourselves and be trusted partners to our customers.”

He points out TE Connectivity, while a global business, attaches great value to making engineering teams available locally. “It’s important that we are close to our customers and support them in their own language and in their own time zone. We organize our engineering teams with a focus on core technology development and application development.”

On the subject of technology, he says there is growing demand for intelligent sensors. “When the sensor itself can process information, you can create new functionalities that increase their quality, their robustness and simplify their adoption in distributed sensing systems. We also increasingly see sensor fusion, the process of merging data from multiple sensors on one device. An example would be the combination of humidity pressure and temperature sensing on one device. These are big trends we see in our industry.”

TE Connectivity completed the previously announced acquisition of Silicon Microstructures Inc. (SMI) from Elmos Semiconductor AG in September 2019. SMI's micro-electro-mechanical systems (MEMS) sensor technology design and manufacturing capabilities, together with TE's operational scale, customer base and existing sensors technologies will lead to a more comprehensive global sensing solutions offering for customers. SMI expands TE's global leadership in pressure sensing technology, particularly in medical, transportation, and industrial applications and will now be reported as part of TE's Sensor Solutions business. SMI is an ISO/IATF certified premier developer and manufacturer of MEMS-based pressure sensors offering unique solutions for pressure and flow sensing. SMI empowers invasive medical devices with ultra-small sensors for in vivo pressure measurement. With more than 25 years of experience SMI's design, production and quality control processes have enabled it to develop some of the lowest pressure and smallest pressure sensors available on the market today. John says: "What SMI brings to TE Connectivity is that they are

strong in low pressure sensing in one point two five millibar range and above. In our portfolio -before SMI- we're strong in the mid to higher pressure ranges and we've got pressure capabilities that goes up to 7000 bar. Now with SMI we've got a very broad and complementary portfolio all the way from ultra-low pressure that's used in a lot of medical device applications and then all the way up to our high pressure ranges that are used in industrial and automotive applications. We like the way that it's filled out and broadened our portfolio and to bring that portfolio now into our customer base."

Experts predict significant growth of things connected via networks, and enormous new value generated by virtue of those connections. Twenty-five billion objects will be linked together via the Internet of Things (IoT) by 2020 says Gartner Group and IDC predicts the global IoT market will grow to \$1.7 trillion by 2020. McKinsey Global Institute puts the value of IoT in business-to-business settings like smart factories at \$3.9 trillion by 2025. While these projections vary in precision, given TE Connectivity's experience with engineers worldwide, the Company

expects the growth of connected things within the next five to ten years to be very significant. Connecting billions of devices brings a huge opportunity for its customers to grow their businesses, drive innovation, and remain competitive. Getting things to communicate with all stakeholders creates a new basis of competition for TE Connectivity's customers and unique products, optimized manufacturing, and greater efficiency.



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**WE CREATE A
SAFER, SUSTAINABLE,
PRODUCTIVE AND
CONNECTED FUTURE.**



