Press release
1 October 2021

Endress+Hauser
People for Process Automation

Continuous demand

Endress+Hauser surpasses the 3-million mark in sales of electromagnetic flowmeters

Since 1977, Endress+Hauser has sold over three million electromagnetic flowmeters (magmeters), while consistently innovating in metrology throughout. "We could not be happier about the continuing demand for our flowmeters and the milestone of three million devices sold. This success is based on the high product quality that we have consistently delivered to customers for decades," says Mirko Lehmann, Managing Director of the Product Center for Flow Measurement at Endress+Hauser.

Magmeters are universally applicable in the water management, chemical, life sciences, mining and food industries and require virtually no maintenance. They measure the flow of electrically conductive fluids in pipelines with high precision, for example water, milk, beverages as well as slurries, pulps, pastes, acids or alkalis. The robust design of magmeters withstands the toughest environmental conditions and even enables their use in the mining industry. A frequent application in this industry is measuring ore slurries with sometimes fist-sized rock fragments.

Versatile devices for any use
Their unique feature is that magmeters can be installed both in smallest pipelines with diameters of just 2 millimeters as well as in those with diameters up to 3 meters. Pipelines of this size are used, for example, to supply megacities with sufficient drinking and process water. Magmeters measure even these huge water quantities with maximum precision. The numerous approvals that have been granted are one of the main reasons for the versatile application options. These options include drinking water, hygienic or sterile applications, permanent use under water or underground (corrosion resistance) as well as for custody transfer or for use in ships on rough seas.

Seamless system integration
Through constant research and development in sensor technology and signal processing for decades, Endress+Hauser has developed high-quality MIDs equipped with numerous functions. Thanks to the wide range of fieldbuses (HART, PROFIBUS, PROFINET, Modbus, FOUNDATION Fieldbus, EtherNet/IP or OPC UA), the flowmeters can be optimally integrated into complex applications with measurement and control technology. Within the context of state-of-the-art networking through Industry 4.0, measured values, device parameters and diagnostic parameters can now be transmitted over the cloud, processed and made available for control tasks anytime and anywhere.

Constant innovation guarantees proximity to the customer
Refusing to rest on its laurels, the company constantly adapts its product line to new market requirements and customer needs. For example, a measuring electrode concept that is unique on the flow market allows the device to be mounted in the immediate vicinity of pipe fittings that generate flow disturbances – without impairing the measuring accuracy and without the measuring pipe constriction usually required for this purpose. In plant engineering, this provides maximum flexibility when planning pipelines, even in confined spaces. Another significant innovation are magmeters that

are additionally equipped with temperature and conductivity measurement, thus enabling even more comprehensive process and product monitoring.

A further highlight is Heartbeat Technology, a test function integrated into the measuring electronics. This technology includes numerous options for monitoring the functionality of a device or certain process parameters – e.g. for the timely detection of build-up formation in the pipeline or the verification of measuring devices during operation. This increases both efficiency and operational safety in industrial plants and thus contributes to process optimization. Mirko Lehmann's goal for the future of the company is clear: "Innovations such as these, and many more, will not only reinforce our market leadership in flow measurement, but continue to expand it over the long term."

Unabated success

In order to enter the water and wastewater market, which was emerging at that time, Endress+Hauser purchased the company "Flowtec" in Bern in 1977 and moved it to a new location in Reinach (Basel-Landschaft, Switzerland). This is where the young company started to produce magmeters with just three employees in a former military barracks. Work was done on an on-demand basis in those early years. Today, Endress+Hauser's flowmeter production boasts state-of-the-art logistics and spans six facilities across the globe in Switzerland, France, the USA, China, India and Brazil. "This makes it possible to provide large quantities of flowmeters to our customers with just-in-time delivery. No matter where the devices are produced, flawless product quality and rapid delivery performance are what counts," Mirko Lehmann says.

Comprehensive protective measures during the pandemic and the supply chains that have been in place for decades also ensured that magmeter production was maintained at a high level and continuously increased despite the COVID-19 crisis. Each of the six flowmeter production facilities features precise high-tech calibration rigs which are regularly checked by national accreditation bodies. This is how Endress+Hauser guarantees a consistently high measuring accuracy for each individual device.

EH_3 Mio MIDs_1-10-2021 - 1.jpg
The beginning: Endress+Hauser produced its first electromagnetic flowmeters in a military barracks (1977).

EH_3 Mio MIDs_1-10-2021 - 2.jpg
Visible growth: One of six Endress+Hauser flowmeter production facilities (2021) – assembly and production halls in Cernay, France.

EH_3 Mio MIDs_1-10-2021 - 3.jpg
Measuring devices for megacities: Endress+Hauser produces flowmeters for pipelines up to 3 meters in diameter, for example for water supply in metropolitan areas.

EH_3 Mio MIDs_1-10-2021 - 4.jpg
Wide range of uses: Electromagnetic flowmeters have been used for decades in all industries, including hygienic applications in the food industry.

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The Endress+Hauser Group

Endress+Hauser is a global leader in measurement and automation technology for process and laboratory applications. The family company, headquartered in Reinach, Switzerland, achieved net sales of approximately 2.6 billion euros in 2020 with a total workforce of more than 14,000.

Endress+Hauser devices, solutions and services are at home in many industries. Customers thus use them to gain valuable knowledge from their applications. This enables them to improve their products, work economically and at the same time protect people and the environment.

Endress+Hauser is a reliable partner worldwide. Its own sales companies in 50 countries as well as representatives in another 70 countries ensure competent support. Production facilities on four continents manufacture quickly and flexibly to the highest quality standards.

Endress+Hauser was founded in 1953 by Georg H Endress and Ludwig Hauser. Ever since, the company has been pushing ahead with the development and use of innovative technologies, now helping to shape the industry's digital transformation. 8,900 patents and applications protect the Group's intellectual property.

For further information, please visit www.endress.com/media-center or www.endress.com

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