

News

All forces captured – with ease and precision

New plug-and-play, piezoelectric force measuring chain with IO-Link for industrial manufacturing

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Kistler now offers a new plug-and-measure solution for industrial manufacturing: the 9395A piezoelectric force measuring chain comes fully pre-configured and calibrated according to customer requirements. Thanks to its IO-Link capability, the new 9395A enables digital communication for smooth integration into Industry 4.0 environments.

Piezoelectric force measurement is a proven approach to achieving high quality and process optimization in industrial manufacturing. Thanks to their dynamic and precise capture of key process parameters, piezoelectric measuring chains reliably deliver added value in demanding industries from automotive to semiconductors and beyond.

Plug-and-play measuring chain: configurable and calibrated

Now, Kistler is offering a new plug-and-play measurement solution, suitable for many applications in industrial environments: the 9395A force measuring chain is made of a piezoelectric sensor, a highly flexible cable and a digital charge amplifier with IO-Link – all tried-and-tested components that bring precision and adaptability, enabling seamless integration and IIoT application in the process.

The 9395A piezoelectric force measuring chain comes as a pre-configured and calibrated solution, reducing commissioning and servicing efforts to a minimum. In addition to the calibrated complete measuring range – e.g., 0 to 1000 N – a second, customer-specific measuring range can be calibrated ex factory.

Force measurement with linearity error compensation to ensure accuracy and repeatability

By combining dynamic linearity error compensation with the consideration of static preload, force measurement remains highly accurate and repeatable – even under rapid load changes. The IO-Link interface makes IIoT integration simple – including quick identification and full traceability – all IO-Link parameters can also be locked if necessary.

High-level force measurement with IO-Link connectivity

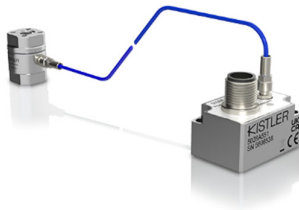
The new 9395A piezoelectric force measuring chain enables automation, manufacturing, and quality engineers to seamlessly integrate highly precise force monitoring into industrial production

processes. Whether for single cells or for complete lines, the 9395A with IO-Link is a convenient, ready-to-use force measurement system for Industry 4.0, smart factories and digital manufacturing environments. Whenever high precision, low measurement uncertainty and digital communication with higher-level systems are required, the new 9395A makes a difference – available now with ranges from 0–20 kN up to 0–50 kN.

Image material (please name the Kistler Group as picture source)



The new 9395A piezoelectric measuring chain with IO-Link comes as a preconfigured, plug-and-play solution for modern industrial manufacturing environments.



The new plug-and-play force measurement solution from Kistler comprises a piezoelectric sensor, a highly flexible, low-noise cable and a digital charge amplifier with IO-Link.

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About the Kistler Group

Kistler is the global market leader for dynamic pressure, force, torque and acceleration measurement technology. Cutting-edge technologies provide the basis for Kistler's modular solutions. Customers in industry and scientific research benefit from Kistler's experience as a development partner, enabling them to optimize their products and processes so as to secure sustainable competitive edge. Unique sensor technology from this Swiss corporation helps to shape future innovations not only in automotive development and industrial automation but also in many newly emerging sectors. Drawing on our extensive application expertise, and always with an absolute commitment to quality, Kistler plays a key part in the ongoing development of the latest megatrends. The focus is on issues such as electrified drive technology, autonomous driving, emission reduction and Industry 4.0. Some 2,000 employees at more than 60 facilities across the globe are dedicated to the development of new solutions, and they offer application-specific services at the local level. Ever since it was founded in 1959, the Kistler Group has grown hand-in-hand with its customers and in 2025, it posted sales of 424 million Swiss francs. About 9 percent of this figure is reinvested in research and technology – with the aim of delivering innovative solutions for every customer.