

Press release

New service for piezoelectric force sensors and measuring chains

Traceable calibration: accredited calibration service from Kistler now also for low forces

Winterthur, February 2025

Piezoelectric force sensors and measuring chains for small forces (1 to 50 N) can now also be traceably calibrated by Kistler. This means that accredited calibrations in accordance with ISO 17025 are now available in the low-force range – increasingly indispensable for quality assurance in industries such as medical technology and semiconductor production.

Regular calibrations are the only way to reliably monitor the precision and stability of the measuring devices used and thus ensure controlled processes in production; they therefore create the basis for reliable measurement results. Traceable calibrations – i.e. calibrations that are traceable to a national or international standard in a national institute – are becoming the standard in more and more industries and applications.

In view of the increasing requirements, the Kistler Group now offers a new accredited calibration service for piezoelectric force sensors and measuring chains in the low force range. This new service provides traceable calibrations in the range from 1 to 50 N by an ISO 17025 accredited calibration laboratory from Kistler. The continuous calibration procedure used has been specially designed for piezoelectric force sensors and measuring chains and achieves the smallest measurement uncertainties. It is also suitable for meeting the highest requirements in the relevant industries.

Traceable calibration: indispensable in many areas

Traceable calibrations are of crucial importance in many industries and are often explicitly required, particularly in the medical technology and automotive industries. In order to ensure the high quality and safety of products, the international quality standard ISO 9001 already requires traceable calibrations for all quality-relevant processes. For medical technology, ISO 13485 follows the requirements of ISO 9001 almost word for word. The requirements in the automotive industry are particularly strict, as IATF 16949, with its continuously updated “Sanctioned Interpretations”, insists on exclusively traceable calibrations.

There are comparable specifications and requirements in semiconductor manufacturing, the consumer goods industry and the aerospace sector, too. Often, only traceable calibrations are

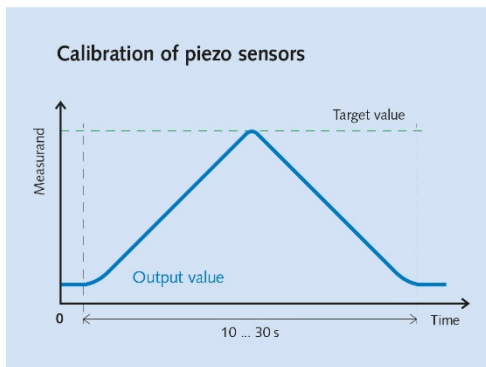
recognized – i.e. those that have been carried out in a calibration laboratory that has been accredited by the respective national accreditation body. In Germany this is the German Accreditation Body (DAkkS), in Switzerland the Swiss Accreditation Body (SAS).

Kistler can now meet this high standard not only for piezoelectric force sensors and force measurement chains up to 300 kN, but also in the low force range from 1 to 50 N. The SAS-accredited calibration service offers an achievable measurement uncertainty of up to 0.75 percent (± 5 mN). Christian Streili, Field Service Development Manager at Kistler, says: “This service extension underlines Kistler's commitment to innovation and high-quality standards in measurement technology. Traceable calibrations in the low force range close an important gap in our service portfolio and enable us to provide our customers with even better support.”

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



Kistler has expanded its calibration service and now also offers traceable calibrations for piezoelectric force sensors that measure low forces (1 to 50 N).



Accredited calibration service: Thanks to the continuous calibration from Kistler, low measurement uncertainties of 0.75 percent ± 5 mN are achieved for piezoelectric force sensors (low force).

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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 owner-managed 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 2,200 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 2023, it posted sales of CHF 465 million. About 9% of this figure is reinvested in research and technology – with the aim of delivering better results for every customer.