

Press release

Highly sensitive, very economical on space and extremely rugged: miniature sensors from Kistler set new standards

Kistler unveils its advanced generation of miniature cavity pressure sensors at K 2019

Winterthur, 16 October 2019

Small and extremely sensitive, but capable of absolute top performance: the advanced miniature sensors (6178C, 6182D and 6183D) from [Kistler](#) – streamlined for maximum precision, and now featuring Unisens® uniform sensitivity and titancarbonitite coating. Visitors to the K 2019 in Düsseldorf from 16 to 23 October can see the miniature sensors on display at stand G81 in hall 10.

These miniature sensors offer a convincing benefit: Unisens® uniform sensitivity, ensuring that they achieve accuracy of just a fraction of the previous tolerance range. This added gain in precision eliminates the need for sensor detection in the system. The sensitivity of these sensors remains constantly high, so users no longer have to enter values in the system from each sensor data sheet. This also means that replacing the sensors is very straightforward, so they are far easier to handle – especially when multi-cavity molds are involved. Very tight tolerance ranges and ease of handling will obviously be key advantages for manufacturers of complex high-precision parts such as electrical plugs, and for producers in the automotive and medical technology sectors.

Protected against wear for longer lifetimes

From now on, the new miniature sensors are also available with a titancarbonitite coating (instead of hard chromium). This coating has proven its excellence many times over in the injection molding sector: it provides optimum protection against wear, ensuring longer lifetimes for these high-sensitivity sensors. The titancarbonitite coating offers two decisive advantages: exceptional hardness against abrasion, and resistance to corrosion caused by the action of chemicals. Thanks to these benefits, the new sensors are ideal for use with glass fiber-reinforced plastics and flame-retardant materials.

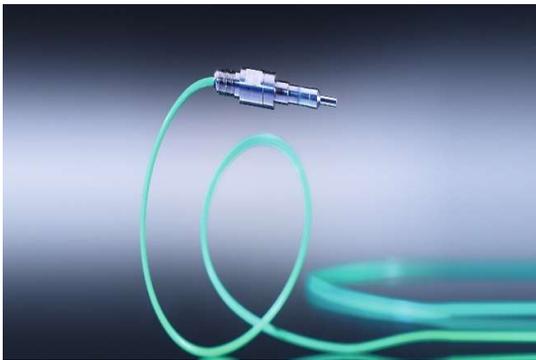
Image material (please name the Kistler Group as picture source)

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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



The 1 mm Unisens® precision sensor (6183D) is the smallest device of its type on the market – both its diameter and its accuracy are unparalleled. It is one of the three advanced miniature cavity pressure sensors from Kistler.

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 2018, it posted sales of CHF 475 million. About 8% of this figure is reinvested in research and technology – with the aim of delivering better results for every customer.