

## Press release

### **Optimized process monitoring system for force-displacement monitoring in industrial production**

The new maXYmos BL from Kistler facilitates quality assurance during pressing, assembly and testing

Winterthur, March 2025

**Kistler presents its optimized maXYmos BL 5867C process monitoring system for easier force-displacement monitoring in industrial manufacturing. The process monitoring system displays process curves in real time and is characterized by improved operability and extended options for integration into the production environment. The compact and cost-efficient variant from the proven maXYmos product family can map and monitor different measured variables on an XY curve. This is particularly beneficial for quality assurance during joining and pressing in the medical technology, automotive, electrical and electronics industries.**

Quality assurance does not have to be complicated as Kistler demonstrates with the improved maXYmos BL. Devices from the maXYmos family capture sensor signals, evaluate the signal curve and provide evaluation results immediately. maXYmos can control the process cycle itself or act as part of a plant control system. The process monitoring system records measured variables from piezo, strain gauge,  $\pm 10$  V sensors or potentiometers and now also allows the connection of incremental sensors to evaluate torque and angle.

#### **More options for force-displacement monitoring in different production environments**

“maXYmos BL is deliberately offered in cost-optimized variants and covers basic quality assurance needs in modern industrial manufacturing. In general, it can be used wherever two measured variables are to be displayed in a diagram with X- and Y-axes,” explains Stefan Koch, product manager at Kistler. “The new functions of the maXYmos BL 5867C process monitoring system reflect this versatility and will be expanded across the entire product family in the future.”

maXYmos BL is conveniently and easy to use, because the user can configure the evaluation quickly and intuitively via the large, high-contrast touchscreen, thanks to graphical objects such as boxes, lines and envelopes. Manual workstations benefit from measurement curves that can be displayed live during measurement. Settings can be transferred locally via a USB port, which also enables storage of recorded measurement data on a storage medium. Bar code readers or

keyboards are also supported as peripherals for efficient data entry. Individual user profiles can be managed centrally via LDAP and configured user groups can be assigned appropriate rights. “This is an essential quality assurance function,” explains Eric Fischinger, Sales Support at Kistler. “We see an increasing need among our customers to assign access rights more flexibly to ensure that settings are only changed by authorized personnel.”

The new generation of the process monitoring system allows plant integration via industrial Ethernet on the most common protocols like EtherCAT, PROFINET and EtherNet/IP for direct connection to the PLC. maXYmos BL excels in automated processes with its rapid evaluation of up to ten processes per second. maXYmos BL can also be integrated into the IIoT manufacturing environment via OPC UA for comprehensive parameter access.

“A variant of the new system without a screen saves additional space and energy in complex production lines with several maXYmos systems where a local screen is not needed,” summarizes Stefan Koch. “Operated centrally with remote process monitoring, accessing the system via the web interface offers both convenience and security. Additionally, device status and identification information displayed further aids in orientation.”

The new generation of the maXYmos BL process monitoring system maintains broad backward compatibility with its predecessor due to identical sensor and I/O connections. However, its functionality and integration align more closely with the more powerful maXYmos TL (Top Level) and NC (Numeric Control) models.

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

To download the images in a high resolution, please follow the link: [\[LINK\]](#)



The advanced maXYmos BL process monitoring system from Kistler simplifies quality assurance during pressing, assembly and testing.




maXYmos BL enables 100% control and seamless force-displacement monitoring of the pressing process with a manual press that is equipped with an integrated force sensor in the tool holder and a displacement sensor.

The process monitoring system's USB port enables easy local transfer of settings and storage of collected measurement data on a storage medium. It also supports peripheral devices such as barcode readers and keyboards, ensuring efficient and accurate data entry.

The advantages of the new maXYmos BL process monitoring system for industrial production at a glance

**PROCESS MONITORING SYSTEM MAXYMOS BL FOR INDUSTRIAL MANUFACTURING**

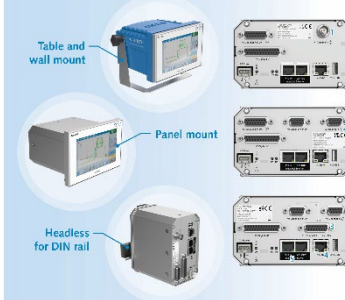
The maXYmos BL process monitoring system captures, analyzes and evaluates XY curves of two interrelated measurands.



- Compact standalone acquisition & evaluation
- Colorful display with touch operation and live view
- Local and remote access management
- Reverse compatible to former 5867B\*
- 5k Sps, 8000 Y (X, Z) data pairs, 16 measurement programs
- Evaluations Objects: BOX, LINE, NO-PASS, ENVELOPE, ...
- Configurable via additional license sets
- Integration via OPC-UA and machine network

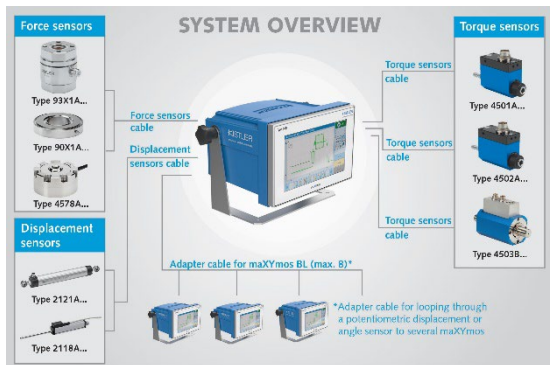
\* specific limitations apply

**Variants of maXYmos BL - Type 5867C**



- 1 Piezo Y for wide range, robust and durable instrumentation
- 2 Strain Gauge (DMS) ±10 V (V) for cost-effective, static torque and force measurements
- 3 Incremental X for Kistler torque/angle sensors
- 4 Ethernet and USB-A for remote HMI and data transfer
- 5 Industrial Ethernet and DIO for machine integration

The maXYmos BL process monitoring system offers flexible application options in the production environment with three mounting variants: front panel mounting, table or wall mounting, and mounting on a DIN rail.



System overview of the extensive combination options for maXYmos with force sensors, displacement sensors and torque sensors for quality assurance.

### Media contact

Elisabeth Iancu  
 Marketing Campaign Manager  
 +49 7172 184 147  
 E-Mail: [elisabeth.iancu@kistler.com](mailto:elisabeth.iancu@kistler.com)

### 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.