



Metrology

Case Study: Easy and Intuitive Control of Production with the TESA Connectivity Solution

Brought To You by TESA Technology | May 01, 2024

TESA TLC-BLE WIRELESS BLUETOOTH® EMITTER + SOFTWARE TESA DATA-VIEWER

Employing more than 390 staff members, EHRET is the leading supplier of aluminum shutters in Europe.

With experience gathered over 50 years, huge technical expertise and a passion, EHRET produces everyday aluminum sun and weather protection systems of a superior quality.

EHRET has been working with TESA instruments for many years and is now converting its Mahlberg plant to Bluetooth® technology.

EHRET's choice fell on the TESA connectivity solution, consisting of the *TLC-BLE wireless Bluetooth® emitter* in combination with *TESA DATA-VIEWER data collection software*.



Inspection of an aluminum frame with a TESA TWIN-CAL IP67 horizontal scale unit.

WIRELESS MEASUREMENT OFFERS HIGH FLEXIBILITY IN THE PRODUCTION HALL

EHRET was able to easily adapt its TESA TWIN-CAL IP67 horizontal scale units to the new technology without having to purchase new ones, as all TESA instruments with Opto-RS232 or Sub-D RS232 output or TESA Link Connector (TLC) can be easily upgraded with the TESA Bluetooth® connectivity solution.

“The control in the production with TESA instruments, which are connected to a computer, represents an enormous time and quality advantage. We have increased our productivity by 30% thanks to the new wireless technology. The users are independent and can easily access the various parameters that allow values to be recorded on the computer,” explains Mr. Kalt, Production Manager at EHRET GmbH.

When mounting adjustable shutters, it is mandatory to respect the tolerances.

Once the aluminum frame in which the slats are mounted has been manufactured, it is crucial to control the dimensions. In order to ensure the correct functioning of the adjustable slats, the frame size must be constant over the entire length of the shutter.

For this control procedure, EHRET applies TESA TWIN-CAL IP67 horizontal scale units equipped with a TLC-BLE wireless Bluetooth® transmitter. The measured values are sent via a Bluetooth® connection to the TESA DATA-VIEWER software, which serves as an interface with Excel.



Inspection of an aluminum frame with a TESA TWIN-CAL IP67 horizontal scale unit.

All aluminum frames are measured at three points. The Excel file contains all tolerance information so that the operator can determine whether the dimension is correct. The free TESA DATA-VIEWER software, which is simple and intuitive to use, collects, analyzes and easily allows data to be stored, eliminating transfer errors and ensuring perfect part traceability.

“Each TESA TWIN-CAL IP67 horizontal scale unit is equipped with measuring supports specially designed for EHRET frames. This facilitates the positioning of the instrument. The measured values are easily transferred to Excel and our staff can reliably record, analyze and classify them,” Mr. Kalt continues.

“For the inspection of parts, we need a wireless connection. This allows the operator to work at two measuring stations in parallel,” says Kalt.

“TESA’s solution for data transmission gives us a high degree of flexibility. An instrument can easily be moved from one workstation to another without being influenced by another instrument in the same environment,” states the production manager.

Up to 600 frames can be inspected daily in the EHRET workshop, and about 15 users are trained to perform the inspection process with TESA measuring instruments.

“The TESA connectivity solution has become essential for our daily work. We are very satisfied because we complete our audits in less time and the quality of our results is better,” concludes Mr. Kalt.

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