



SAVING TIME IN QUALITY CONTROL AND WORKSTATION ERGONOMICS WITH THE TESA CONNECTIVITY SOLUTION



Espace de Formation Emploi Jura (EFEJ), Bassecourt – Suisse

THE TESA DATA-VIEWER SOFTWARE: A GATEWAY BETWEEN TESA INSTRUMENTS, EQUIPPED WITH TESA TLC-BLE BLUETOOTH® WIRELESS EMITTERS AND DATA PROCESSING SOFTWARE

The EFEJ is the cantonal centre of the Jura (Switzerland) where job seekers can improve their skills. This training centre aims to strengthen the professional integration means by offering practical workshop training in several professions in the industrial and artisanal sector.

The EFEJ has recently invested in a new metrology laboratory where several dozen members will have the opportunity to acquire new knowledge in dimensional quality control.

The expertise of the EFEJ's metrological laboratory is available for assignments entrusted by the industrial companies of the region. The main applications are for the needs of the watchmaking, medical, mechanical and turning industries for small series.





The wireless measurement provides a high flexibility of measurement in a laboratory environment

THE TESA DATA-VIEWER SOFTWARE, THAT IS USED TO CONNECT THE INSTRUMENTS, IS CONFIGURED AS A GATEWAY BETWEEN THE INSTRUMENTS AND THE QUICKCONTROL PRO SOFTWARE

All thirteen control stations in the laboratory are equipped with TESA measuring instruments connected to computers by wireless Bluetooth® technology.

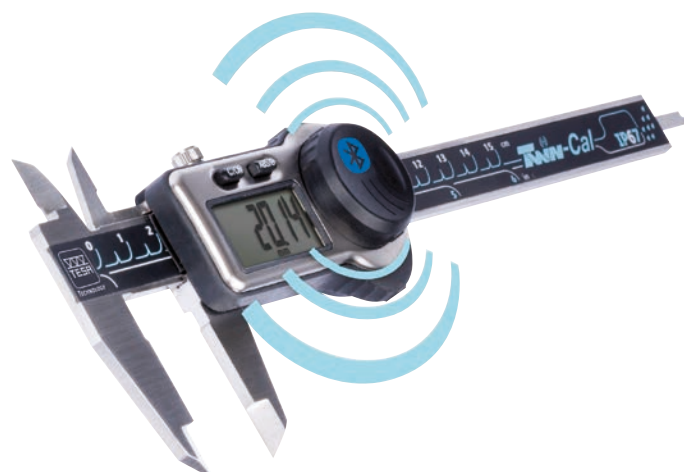
The collected data is then processed via the Quickcontrol Pro quality control software (Logsystem SA).

“TESA DATA-VIEWER optimizes the time required for measurement operations by storing the instrument connection parameters in Quickcontrol Pro,” explains Mr. Lo, industrial control trainer at the EFEJ.

“The ability to connect TESA measuring instruments to the data management software makes our daily work much easier and makes traceability reliable, avoiding any transcription errors.

“In addition, the Bluetooth® technology allows us to guarantee safety at the workplace, without having connection cables that could cause parts to fall down. This way of working is more ergonomic and makes it possible to optimize the measurement time,” continues Mr. Lo.

“ The TESA instruments and the connectivity solution (TESA TLC-BLE Bluetooth® wireless emitter + TESA DATA-VIEWER software) ensure the reliability of data transmission and simplify the quality control of the mechanical parts produced by the EFEJ.



TWIN-CAL IP67 with emitter TESA TLC-BLE



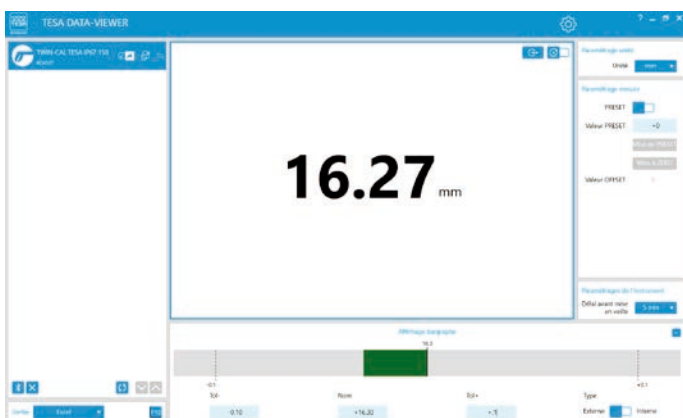
Instruments with wireless connection to the TESA DATA-VIEWER software

All stations include two micrometers with measuring ranges of 0-30 mm and 25-50 mm and a caliper, each one connected to the computer via the TESA TLC-BLE Bluetooth® wireless emitter.

Among the measuring equipment in the laboratory are also a USB probe and a TESA MICRO-HITE height gauge, which integrates the TLC (TESA Link Connector) technology for the TESA TLC-BLE Bluetooth® wireless connection.

“The TESA connectivity solution with the TESA TLC-BLE Bluetooth® wireless emitter provides great flexibility: an instrument can easily be moved from one workstation to another without being influenced by other instruments in the same environment,” says Mr. Lo.

“Since my studies as an engineer, I have always worked with TESA instruments,” concludes Mr. Lo, “I have always been completely satisfied with these instruments. They are precise and robust.”



Logiciel TESA DATA-VIEWER



Emitter TESA TLC-BLE

We would like to thank the EFEJ for their friendly support and for the authorization to publish this case study.





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-  DESIGN AND COSTING SOFTWARE



Established in 1941 and headquartered in Renens, Switzerland, TESA manufactures and markets precision measuring instruments that stand for quality, reliability and longevity.

For more than 75 years, TESA has distinguished itself in the market through its excellent products, its unique expertise in micromechanics and precision machining as well as its proven experience in dimensional metrology.

The TESA brand is the global market leader in the field of height gauges and a pioneer thanks to its wide range of instruments, including callipers, micrometers, dial gauges, lever-type dial test indicators and inductive probes. TESA is a true benchmark for the inspection of incoming goods, as well as for production workshops and quality assurance laboratories.

Through its worldwide distribution network the company focuses on the mechanical engineering, micromechanical, automotive, aerospace, watchmaking and medical industries. In 2001, TESA became part of Hexagon, a leading global provider of information technologies.

TESAtechnology.com



The Jura work-training centre (EFEJ) is the cantonal centre for job seekers who want to improve their skills. It is intended for the training, evaluation and validation of their professional experience.

In an environment comparable to that of many companies, specialized trainers supervise approximately 150 people on a permanent basis.

The objective is the rapid and sustainable reintegration of jobseekers into the job market.