

Qualifying the operation and performance of HPLC systems

TESTA Analytical reports how its **liquid chromatography flowmeter** is helping a leading German **analytical services company** to regularly qualify the operation and performance of their HPLC systems.



Image caption: HPLC system operation and performance qualification using a TESTA Analytical liquid chromatography

A scientist at the analytical services company commented

"We have a total of three HPLC systems that require regular and reliable qualification in accordance with current regulations to make them suitable for use in customer GLP, GCP and GMP projects. Traditionally we relied upon a time consuming timed volumetric technique to measure the delivered flow rate of our HPLC systems. With the help of the team at TESTA Analytical we replaced our old HPLC equipment qualification methodology with their real-time flowmeter. To be more specific, we use TESTA liquid chromatography flowmeters during installation and Operation Qualification, as well as during periodic performance qualification of our HPLC system pumps. We find that using the TESTA flowmeter allows us to qualify our instruments efficiently and accurately. It saves a lot of time, is easy and straightforward to use. The use of the flowmeter significantly reduces the amount of time it takes to qualify our equipment and is a reliable tool that can be applied to help us monitor HPLC pump performance at any point."

Flow rate

is one of the most important parameters in any liquid chromatography system, it determines retention time or volume and therefore has a major influence on reproducibility. The TESTA Analytical liquid chromatography flowmeter has set a new standard for non-invasive measurement of flow rate in HPLC, UHPLC and GPC/SEC systems.

Compact in size, and conveniently

powered via a USB connection, the TESTA Analytical liquid chromatography flowmeter uses a thermal flow sensor that is extremely accurate, sensitive, and high-resolution, as well as non-invasive. As the sensor does not interfere with the measurement it can operate over a wide dynamic range and has been demonstrated to be the perfect real-time flow monitoring tool for liquid chromatography applications including calibrating the flow rate of HPLC pumps, troubleshooting defective systems, and continuous validation of instrumental operation and performance.

For further information

about the liquid chromatography flowmeter please visit <https://www.testa-analytical.com/flow-monitoring.html> or contact TESTA Analytical on +49-30-864-24076 / info@testa-analytical.com.

TESTA Analytical Solutions is

a leading specialist supplier of liquid chromatography instruments and detectors. Drawing upon over 30 years' experience, TESTA Analytical Solutions has established itself as a respected creator and supplier of top quality, innovative, high performance chromatography instrument kits, and detectors with OEM clients around the world.

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