

Press release

LC:Sprayer – Universal control solution for crop protection sprayers – LACOS presents new complete solution at Agritechnica

Zeulenroda-Triebes / Salzkotten, September 2025 – At Agritechnica 2025, the LACOS Group will present a new, manufacturer-independent complete solution for the control of plant protection sprayer attachments. The new system solution is equally suitable for ISOBUS machines and non-ISOBUS machines – both as original equipment for agricultural technology OEMs and for retrofitting via specialist dealers or directly at the end customer's premises.

The system consists of a perfectly coordinated combination of hardware and software components – from the control software on the ECU, to the ECU itself, to power distribution, cable harnesses, valves, and sensors. This complete offering provides manufacturers and users with a fully integrated solution from a single source.

A key feature of the solution is its technology openness:

- It supports PWM (pulse width modulation) for precise, pulsed single nozzle control
- EPDS (electro-pneumatic nozzle switching) for flexible section or single nozzle switching.
- as well as classic section switching, which is still in use in many farms.

This flexibility makes the system ideal for OEMs who want to cover different technology levels in their machine lines, as well as for contractors and farmers who want to retrofit existing technology with modern control systems.

Modular, robust, future-proof

The solution has a modular design and can be tailored precisely to the respective application. The PWM functionality was specially developed for high precision at variable speeds – with constant drop size, uniform cross-distribution, curve compensation, and the option of variable single-nozzle application (spot spraying). At the same time, the system remains fully ISOBUS-compatible and can be operated entirely via the ISOBUS Task Controller or other terminals.

Tests under real-world conditions prove its reliability and accuracy: in an extensive field trial in Italy, a maximum deviation of only 2% between target and actual dosage was measured. A specially developed intelligent filter block with sensor system protects the nozzles from dirt particles and automatically signals when cleaning is required.

Compatibility with various nozzle technologies and connection to ISOBUS make the solution versatile and manufacturer independent. It enables precise application of products, reduces overlaps and multiple treatments, and thus actively contributes to reducing the consumption of plant protection products. At the same time, resource use is optimized, and the environment is protected – a significant contribution to more sustainable crop protection and more efficient work processes in the field.

“Our new control solution takes intelligent application technology to a new level – regardless of the type of machine. Whether in original equipment or retrofitting, whether PWM, EPDS, or classic section control – we offer a powerful and flexible solution for all requirements of modern crop protection technology,” explains Fabian Karthaus, Product Manager at the LACOS Group.

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