



## DIGITAL SPRAY CONTROL SYSTEM



**Most Mega water products are now available** with the new Mega Digital Spray Control System\*. This system will be standard on larger products and an option on smaller, more price sensitive, machines. The base machine replaces the original Mega cab control with a new operator interface and digital control system. Along with the base Digital Spray Control System, Mega is offering an optional accessory that allows

the operator to automatically control the amount of water applied to road surfaces based on ground speed. This system works with the existing Mega spray system hardware – water pumps, hydraulic motors, spray heads and electro-hydraulic controls. The system is available for use with most Mega water products and offers the following additional benefits over the base system:



### GPS Speed Sensing

The system uses GPS data to determine speed. The GPS system is universal – there is no special application-specific engineering required and the system is not vulnerable to contamination like radar-based systems.



### Self-Contained

The system does not require connections to other vehicle systems to determine speed. Because it is self-contained, it is easy to adapt to a wide variety of machine applications.



### Automatic Water Consumption Reduction

The spray control system utilizes a PWM (pulse width modulation) strategy to automatically limit the amount of water consumed based on vehicle speed while maintaining road dust control coverage. Utilizing the PWM strategy avoids the addition of complex and costly variable flow hydraulic systems and the resulting impact on machine reliability.



### Automatic Shut-off

The system automatically shuts off the flow of water as the vehicle comes to a stop to prevent puddling. Spraying automatically resumes as the machine begins to move again.



### Fail-Safe

In the event the system loses its GPS speed signal or otherwise malfunctions, the system reverts to manual mode and allows the machine to continue operating with full capability in the original, manual mode until repairs can be made – no need to immediately down the machine.



### Versatility

The system is adaptable to most Mega water equipment and can be easily added in the field to machines originally equipped with the base system described above. The control system can be retrofitted to many older models of water distribution equipment equipped with Mega spray systems without replacing any hardware. And, the entire system can be used with competitive water tanks as well.



### Reliability

The system utilizes the same Mega water pump, hydraulic motors, spray heads and electro-hydraulic controls. There are no complex modifications to the vehicle's hydraulic systems or powertrain – in fact these interfaces do not change at all. The same durable Mega spray system components are maintained with all of the same parts supply, technical support and documentation.

\* Patent pending.