

All outputs are on the J1939 interface

The WM-580 joystick is available under the Williams Controls product brand, owned by Curtiss-Wright. It is intended for off-highway vehicles.



The inputs to the joystick are via motions in the x- and y-direction (Photo: Curtiss-Wright)

[Zoom](#)

During the design, Williams worked directly with equipment operators on product designs under the supervision of a kinesiologist. The resulting grip and control options are designed to minimize user fatigue and repetitive stress risk, while maximizing comfort, said the company. The input motions are limited to 20° in both the x- and y- directions and 27° in directions off axes (corner to corner). Additional operator inputs may come by way of pushbuttons, thumbwheel, or trigger. All outputs are available via the CAN-based J1939 interface. According to the supplier, the fully potted circuit board provides trouble-free performance in high-moisture environments, as well as superior resistance to shock, vibration and chemical exposure. Watertight electronics are encapsulated to IP67. With over fifty variations of the joystick, the product has intuitive grips and control button configurations, which meet many application needs.

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