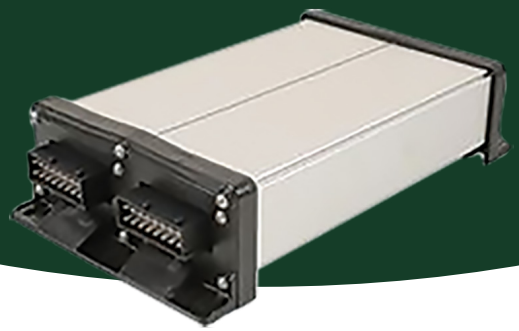
DATASHEET

FIELD-IQ ISOBUS ORCHARD/VINEYARD SPRAYER

Control System

PTx Trimble Field-IQ™ ISOBUS control solutions provide compatible application control. With AEF-certified ISO compatibility, Field-IQ crop input control solutions help growers get the most out of their spraying equipment and reduce input costs in every field.



Key Benefits

- Boost yields and save on inputs with flow rate, pressure rate and section control
- Reduce environmental impact from efficient use of crop protection chemicals
- Prevent unwanted spraying with intelligent gap and headland detection to automatically shut off spray nozzles
- Peace of mind with guaranteed compatibility via AEF ISO 11783 certification
- Reduce operator fatigue by automating machinery functions such as end of row start and stop, and automatic boom folding and unfolding



The Field-IQ™ ISOBUS Orchard/Vineyard Sprayer control system—consisting of the Field-IQ ISOBUS ECU paired with appropriate cabling, harnesses, control units and highly customized implement profiles—delivers ideal spraying control for the specialized orchard and vineyard equipment in use globally. This system allows full management of flow and pressure regulation, hydraulic system controls (boom folding and unfolding), integration of ultrasonic sensor feedback, fan control and location-based control such as automatic headland detection and section control.

Control every type of orchard and vineyard equipment from dusters to 9-row implements with expertly configured and personalized profiles covering a wide range of functionality. The system is certified by the AEF to be fully ISOBUS compatible. When the terminal changes, all implement-specific data remains stored in the ECU preventing data loss and ensuring easy transfer. Live operational data is displayed on the terminal, where on-screen icons and colors are also customizable. Manual operation is additionally available with a joystick or switch box.

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Technical	
Processors (2)	32-bit ARM Cortex-M4 CPU 168 MHz, 2048 KB flash; 256 KB RAM
External memory	SPI-Flash 16 MB; SDRAM 16 MB; FRAM 16 kByte
Connections	42-pin connector for connecting actuators/sensors 2x 16-pin connector for power supply and CAN The connectors can be locked and equipped with single conducto insulations
Interfaces	Up to 3xCAN*
Power supply	12 V electrical system (9-16 V), maximum current consumption 30 A
Current consumption (IN)	500 mA (at 14.4 V without power output, without supply to external sensors)
Standby current (OFF)	70 µ A (typ.)
Temperature	
Operating and storage temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)
Housing	
Housing	Anodized aluminium continuous cast casing, plastic lid with seal and pressure compensation element, stainless steel screws
Protection rating	1IP6K6K (with installed connectors)
Dimensions	Approx. L 262 mm (10.3") W 148 mm (5.8") H 62 mm (2.4") (Without connector)
Weight	Approx. 1 kg (2.2 lbs)
Certifications	
AEF ISO 11783 certification	UT, ISB, AUX-N, TC-BAS, TC-GEO, & TC-SC

* Other interfaces upon request





Contact your PTx Trimble Authorized Dealer today

PTx TRIMBLE
10368 Westmoor Drive
Westminster, CO 80021
USA
+1-720-887-6100 Phone
+1-720-887-6101 Fax

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