

Agriculture Control Module

SM-1X



Modular Architecture

Universal Compatibility (ISOBUS Ready)

Designed to fit many manure spreader implements, the SM-1X provides a universal and reliable solution to control key functions, such as rateand section control.

Modular and developed under ISOBUS protocol, it's customizable with the option of integrating into 3rd party systems or complementing a complete Topcon solution. And with an IP67 rating, the SM-1X controller is built to withstand the harsh conditions of agriculture.

ELECTRICAL	
Supply Voltage	9 - 30V dc (24V operation requires external transient protection)
Supply Current	< 500 mA (with no load)
Maximum Supply	20A
Current	
Communications Ports	2 x CAN 2.0B
EMC	ISO 14982 (Forestry and Agricultural Machinery) For Bluetooth option also: FCC CFR 47, ICES-003 and EN 301 489-17 (RED)
PHYSICAL	
Sealing	IP67
Vibration / Humidity / Operating / Temperature etc.	Conforms with Topcon Environmental Test Specification MIN_SP_001 (Details on request).
Dimensions	External: H 8.42 in (214 mm) x L 5.94 in (151 mm) x W 1.81 in (46 mm) Center of Mount Holes: H 5.35 in (136 mm) x L 3.54 in (90 mm)
INPUTS / OUTPUTS	
Outouts	30 Outputs Total: 18 x 5A H-Bridges, 8 of which are PWM capable 12 x 3A High Side Drivers Current / Power sensing on all outputs. Maximum switched current: 20A
Inputs	25 Inputs Total: 5 x ID Inputs (settable in the loom) 4 x Low Speed Status Inputs 7 x High Speed (10 kHz max) Inputs fer encoders etc 9 x Multi-Function Inputs (0 5V. 4-20 mA Digital). 10 kHz max when used in digital mode
Hardware Interlock	Hardware interlock to all outputs
Sensor Power	Both protected +5V and supply voltages available for powered sensors
LEDs	Power / Status
PROCESSOR	
Real-Time Processor	ARM M4 core running at 168 MHz
Non Volatile Storage	8M Byte

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