

Yield Monitoring Controller

YM-3



Modular Architecture

Customizable Topcon Solutions

Universal Compatibility (ISOBUS Ready)

Designed to fit many combine harvesters for grain and commodity crops, the YM-3 yield monitoring controller provides a universal and reliable option to collect accurate harvest data.

Combined with a Topcon or ISOBUS compatible GNSS receiver, the solution offers a powerful interface including live yield mapping layers through Topcon X family consoles or alternatively, a basic yet relevant interface through 3rd party ISOBUS consoles. Data is easily exported in industry standard shapefile and ISOXML formats.

ELECTRICAL

Supply Voltage	9-30 VDC
Supply Current	< 500 mA typical operating current (with no load) 7.5 A maximum operating current
Input Protection	30 V
Communications Ports	CAN 2.0B (2)
EMC	Applicable regulation: ISO 13766:2018 (Earth Moving Machinery) and ISO 14982 (Forestry and Agricultural Machinery) Bluetooth option: FCC CFR 47, ICES-003 and EN 301 489-17 (RED)

PHYSICAL

Processor	ARM M4 core running at 168 MHz 8 M Byte
Outputs	3 A PWM High Side Drivers with maximum switched current: 7.5 A - 4 ea.
Inputs	Digital Only input (10 kHz max) - 1 ea. Multi-Function inputs (0-5 V, 4-20 mA Digital 10 kHz max when used in digital mode - 10 ea. Load Cell inputs with programmable Gain - 2 ea.
Sensor Power	Protected supply voltage available for powered sensors
LEDs	Power / Status
Weight	0.88 lbs (0.4 kg)
Dimensions	External: H 5.94 in (151 mm) x L 5.51 in (140 mm) x W 1.81 in (46 mm) Center of Mount Holes: H 5.35 in. (136 mm) x L 2.76 in. (70 mm)
Enclosure	Black PA6 M40

ENVIRONMENTAL

Operating Temperature	185 °F to -13° F (85 °C to -25 °C) (EN 60068-2-2 Dry Heat)
Storage Temperature	185 °F to -40 °F (85 °C to -40 °C) (EN 60068-2-2 Environmental Dry Heat)
Humidity	40C @ 93% (EN 60068-2-78 Damp heat & ISO 15003 Agricultural Engineering Environmental Resistance).
Vibration Test	10 Hz to 400 Hz at a sweep rate of 1 octave/min, Acceleration 50 m/s ² (EN 60068-2-6 & ISO 15003)
Ingress Rating	IP67 (EN60529)
Mechanical Shock (Operational)	3 shocks at 50g (EN 60068-2-27)
Mechanical Bump (Operational)	100 shocks at 40g (EN 60068-2-27)
Solar Radiation	1500 hours (ISO 15003)
Chemical Resistance	100 hours (ISO 15003)
Particle Impact Gravel impact	1 hour (ISO 15003)
Salt Spray	14 days (EN60068-2-52)

Specifications subject to change without notice.
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