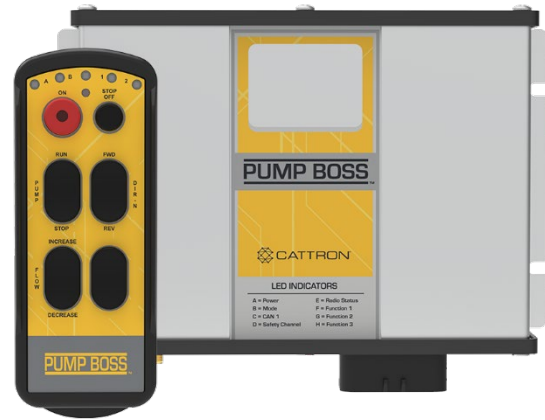


PUMP BOSS™

PUMP BOSS III REMOTE CONTROL



HIGHLIGHTS

- Increases productivity and safety for concrete pump operators
- Rugged and reliable system using the latest generation design
- Closed box configuration and diagnostics over Bluetooth®

FEATURES

- Eight solid state outputs 2 X 10A, 6 X 4A in a Category 3 PL-d configuration
- Single CANbus interface that supports J1939 and CANopen
- Wide range 9-36 VDC supply designed to meet tough mobile application requirements
- Frequency and address management are not required
- Simple pushbutton configuration of spares
- High EMI performance in tough environments
- PL-d safety level based on black channel telegram for both control and feedback
- Leather holster included

APPLICATIONS

- Concrete mixer trucks
- Volumetric concrete mixer truck
- Concrete line pumps
- Vacuum trucks





TECHNICAL DATA AND SPECIFICATIONS

ELECTRONIC DATA	
Digital Circuitry	Dual 32-bit microcontrollers
System Address	48-bit MAC and 24 Bit Master
Battery Type	Two 1.5V AA alkaline batteries
Battery Life	65 hours with typical use

RF	
Frequency Range	License exempt: 2.4GHz, 915 MHz
Operating Range	Sub-GHz – 150m / 500 ft typical 2.4 GHz – 180m / 600 ft typical
Connection	Two SMA supporting antenna diversity
Antennas	Chassis mount (standard) or Mag-mount (option) 9ft foot antenna cable
Telegram	Dynamic high-efficiency telegram
Data Security	Enhanced black channel communication

MCU INTERFACES	
Power	9-36 VDC 20W
Digital Out	Eight solid-state PL-d outputs 2 X 10A, 6 X 4A (36 VDC max) Switch to B+
CAN	One CAN port supporting J1939, CANopen
Harness	MCU is supplied with a 6ft cable assembly for power, digital and CAN
Bluetooth	Supporting OTA diagnostics, programming and configuration

MECHANICAL DATA	
Enclosure	MCU: aluminum / OCU: fiber-reinforced nylon
Weight	OCU: 9 oz (250g) MCU: 1.8 lbs (816g)
Dimensions	MCU: 2x8x6in. (50x200x150mm) OCU: 6.5x2.8x1in. (165x71x25mm)
Operating Temperature	OCU: -4° to +140°F (-20° to +60° C) MCU: -40° to +140°F (-40° to +60° C)
Shock Resistance	MCU: 17G OCU: 1m drop onto concrete
IP Protection Class	MCU: IP66 / OCU: IP65

COMPLIANCE	
ISO 16750-1/-3/-4	Environmental
ISO 7637-2/-3	Electrical disturbances
ISO 13766	Electromagnetic compatibility
EN60204-1	Safety of machinery – electrical equipment
EN ISO 13849	Functional safety category 3 PL-d
RF Compliance	Approved in all regions of sale per national and regional requirements
ISO 11898-2	CANbus fault protection

ACCESSORIES	
Antenna	Chassis mount and line kit or Magnet mount and line kit
Battery Charger	Drop-in cradle and power adapter, various power options available
Rechargeable Battery	LiPo rechargeable battery
Leather Holster	For OCU

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