

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
- Long-range 2.4GHz radio system with more than 600ft of operating range
- 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
- Leather holster included
- One-year warranty

APPLICATIONS

- Concrete mixer trucks
- Volumetric concrete mixer trucks
- 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 |
| Power Requirements | MCU: 9-36 VDC OCU: two 1.5V AA Alkaline batteries or a LiPo rechargeable option |

RF

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|----------------------|--|
| Frequency | License exempt: 2.4GHz |
| Connection | Two SMA supporting antenna diversity |
| Antennas | Chassis mount (standard) or Mag-mount (option) |
| Telegram | Dynamic high-efficiency telegram |
| Data Security | Enhanced black channel communication |

MCU INTERFACES

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|--------------------|--|
| Power | 9-36 VDC 20W |
| Digital Out | Eight solid state PL-d outputs 2 X 10A, 6 X 4A (36 VDC max) |
| 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

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|------------------------------|---|
| 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 | -4° to +140°F (-20° 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

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|-----------------------------|---|
| 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 |