



## LP1501-2R/4I/4O-E2MLPM (752-2201)

LP1501 Two Reader / Four Input / Four Output  
Access Control System

The LP1501-2R/4I/4O-E2MLPM is a unified two reader, four input, four output access control system with lock power, power management and expansion up to four doors. The kit is configured with space to add backup battery and utilizes an FPO power supply to generate 12 or 24VDC. It includes a LP1501 board, MR-50-S3 board, a locking four door enclosure with tamper, power supply, lock power, power management and wiring speed kit. It is expandable to four readers with one MR52-S3 board. Configuration, administration and control are available through BluSKY.



### System Features

#### FPO offline power supply

- 120 or 230 VAC input
- 12 and 24 VDC outputs
- On board Fire Alarm Interface
- Continuous and resettable DC

#### Distributed output module

- Four, controlled fused at 3A each
- Eight, auxiliary Class II P limited at 2.5A each

#### Expansion options

- Increased power, multiple voltages
- Additional distribution outputs
- Power management

### Enclosure Features

#### Labor saving design

- Unified power and security in one enclosure
- Pre-wired power section
- Removeable backplate simplifies installs
- Speed kit is included for power and data wiring

#### Additional benefits

- Wire management room
- 4.5" enclosure depth fits battery set
- Tamper switch, lock, dual key set standard
- Mounting hardware for access boards included

### Specifications

#### Input Power:

- Input 120/230VAC 50/60Hz | 100 Watts
- Overload and short circuit protection
- Over temperature protection
- Polarized AC power supply disconnect

#### Output Power:

- 75W Total Output Power | 12VDC/12A or 24VDC/3A
- 5-18VDC @ 4A Max. | FPO Board Outputs: Continuous (DC1), Resettable (DC2)
- 8 Managed Outputs, Class 2 PL @ 2.5A each
- 120mV Output Voltage Ripple | System Efficiency: 85% | System BTU Rating: 33 BTU/Hr

#### Battery Charging:

- Independent built-in 1A (FPO75) Charger for sealed lead-acid or gel type batteries
- Microprocessor dual rate charging of 12 or 24V battery sets
- Automatic switchover to standby battery when AC fails
- Zero voltage drop when switched over to battery backup

#### Regulatory Compliance:

- UL294, UL603, UL864, UL1076, UL1481, UL2044, UL2572, ULC S318, ULC S319, ULC S527, CSA C22.2 #107.1, FCC Part 15, CSFM Approved

#### Access Panel:

- (1) LP1501, (1) MR50-S3  
2 Readers | 4 Inputs | 4 Outputs

#### Size and Weight:

- 20.00"H x 16.00"W x 4.50"D | 27 lbs.

## Recommended board layout



## Kit Includes

MFG Part #	BluBØX Order #	QTY	Description
LP1501	120-1001	1	One door DB controller Ethernet PoE/12V
MR50-S3	120-2301	1	One door controller & auxiliary I/O 12/24VDC
MR52-S3	120-2501	1	Two door controller & auxiliary I/O 12/24VDC
E2M-SK-3T	577-3035	1	Three board precut DC power, RS485 and lock trigger wiring kit
LP1501-MR50	640-1400	1	LP1501-MR50 bracket
FPO75-B100M8PNL4E2M	670-1461	1	Four door power supply with managed lock power and E2M enclosure

## Expansion Options

MFG Part #	BluBØX Order #	QTY	Description
MR52-S3	120-2501	1	Two door controller & auxiliary I/O 12/24VDC

## Ordering Information

BluBØX Order #	Description
752-2201	LP1501 two reader, four input, four output access control system with managed lock power expandable to four doors

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