LifeSafetyPower®

PROWIRE®

Mercury 16DR

Overview

These ProWire Unified Power wall mount models are single and dual voltage access power systems, precision wired for Mercury controllers. ProWire enables the specification and installation of **standardized access power equipment** across an enterprise for uniform operation, maintenance and servicing.

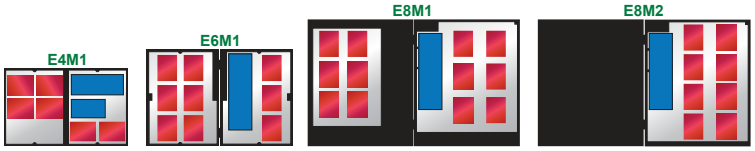
The C8 or M8 control modules provide sixteen access control inputs capable of voltage or dry contact activation, and sixteen outputs programmable for failsafe / failsecure operation at either 12 or 24 VDC and controlled by the power supply fire alarm interface. The D8 modules provide sixteen auxiliary outputs. In dual voltage systems, each output is configurable for 12 or 24VDC operation.

ProWire Unified Power enclosures are painted steel with removable backplate, lock, keys and and tamper switch and come 100% factory tested – ready for final panel installation and field wire termination.

Product Features

- Guarantees uniform installations across an enterprise
- Pre-installed wire harness for panel power, lock control, faults and tamper switch
- Point to point wiring; labeled, color coded, twisted pair, shielded communication
- Tie wrap or wire duct cable management options
- Managed systems monitor power, batteries and sixteen outputs
- UL294, ULC S319 joint LSP / Mercury integrated listing

Enclosure Styles

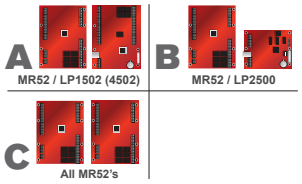


Model Nomenclature

Power Supplies — **Accessory Boards & Enclosure** — **Wiring Option**

FPO150/250 – **2C8 3D8P E8M2** / **P16-A**

- **Power rating**
  - **FPO150** 12A/12V 150W system power
  - **FPO250** 10A/24V 250W lock power
- **Accessory qty**
- **Accessories** C8, D8P, M8
- **Enclosure**
- **Wiring Option**
  - **P** Panduit 16DR
  - **T** Tie Wrap 16DR
  - **A** MR52 / LP1502 (4502)
  - **B** MR52 / LP2500
  - **C** Eight (8) MR52



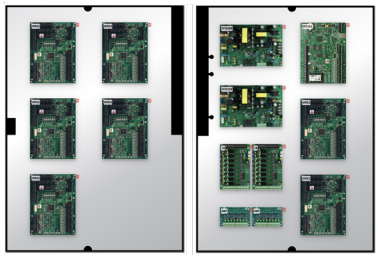
*Base Model Number	Tie Wrap Wiring			Panduit Wiring			System Type	Distributed Outputs	Enclosure / Cable Mgmt
	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	STD / NET	Auxiliary and Control	H x W x D (inches)
Dual voltage - 12A/12V and 10A/24V									
FPO150/250 – 2C83D8PE4M1 /	T16-A	T16-B	T16-C				Standard	16 auxiliary, 16 lock control	**E4M1** 24 x 20 x 6.5 Tie Wrap
FPO150/250 – 3D8P2M8NL4E4M1 /	T16-A	T16-B	T16-C				Networked	16 auxiliary, 16 managed	
FPO150/250 – 2C83D8PE6M1 /	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Standard	16 auxiliary, 16 lock control	**E6M1** 30 x 23 x 6.5 Tie Wrap / Panduit
FPO150/250 – 3D8P2M8NL4E6M1 /	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Networked	16 auxiliary, 16 managed	
FPO150/250 – 2C83D8PE8M1 /	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Standard	16 auxiliary, 16 lock control	**E8M1** 36 x 30 x 6.5 Tie Wrap / Panduit
FPO150/250 – 3D8P2M8NL4E8M1 /	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Networked	16 auxiliary, 16 managed	
FPO150/250 – 2C83D8PE8M2 /	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Standard	16 auxiliary, 16 lock control	**E8M2** 36 x 30 x 6.5 Tie Wrap / Panduit
FPO150/250 – 3D8P2M8NL4E8M2 /	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Networked	16 auxiliary, 16 managed	
Single voltage - 20A/12V (10A/24V)									
FPO250 – 2C83D8PE4M1 /	T16-A	T16-B	T16-C				Standard	16 auxiliary, 16 lock control	**E4M1** 24 x 20 x 6.5 Tie Wrap
FPO250 – 3D8P2M8NL4E4M1 /	T16-A	T16-B	T16-C				Networked	16 auxiliary, 16 managed	
FPO250 – 2C83D8PE6M1 /	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Standard	16 auxiliary, 16 lock control	**E6M1** 30 x 23 x 6.5 Tie Wrap / Panduit
FPO250 – 3D8P2M8NL4E6M1 /	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Networked	16 auxiliary, 16 managed	
FPO250 – 2C83D8PE8M1 /	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Standard	16 auxiliary, 16 lock control	**E8M1** 36 x 30 x 6.5 Tie Wrap / Panduit
FPO250 – 3D8P2M8NL4E8M1 /	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Networked	16 auxiliary, 16 managed	
FPO250 – 2C83D8PE8M2 /	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Standard	16 auxiliary, 16 lock control	**E8M2** 36 x 30 x 6.5 Tie Wrap / Panduit
FPO250 – 3D8P2M8NL4E8M2 /	T16-A	T16-B	T16-C	P16-A	P16-B	P16-C	Networked	16 auxiliary, 16 managed	

**Complete model number requires base and wiring suffix, i.e, FPO150/250-2C83D8PE8M2 / P16-A*

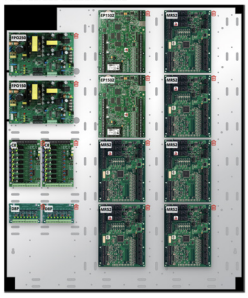
System Specifications

Power Supplies	**FPO150**	Power supply board 12A/12V, 150W
	FPO250	Power supply board 10A/24V, 250W
		Input 120/230VAC 50/60Hz | Single voltage 142 Watts (1.42A) | Dual voltage 452 Watts (3.77A) Overload and short circuit protection Over temperature protection Polarized AC power supply disconnect
Battery Charging		Independent built-in 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
Supervision		AC Fault (form "C" contacts) System Fault (form "C" contacts) System Fault conditions: Low or no battery | short to earth ground | power supply failure
Distribution Modules	**D8P (X3)**	16 auxiliary outputs, class 2 power limited at 2.5A per output (third D8P dedicated power to Mercury controllers)
	C8 (X2)	16 relay lock control outputs, fused at 3A per output
	M8 (X2)	16 relay managed outputs, fused at 3A per output
Network Management	**NL4**	Four port module. Monitors and reports power supply status. Tests and reports battery health status.
	M8 (X2)	Monitors sixteen (16) individual outputs. Remote reset each output. Set window thresholds for voltage & current.
Enclosures	**E4M1**	Size: 24.00H x 20.00W x 6.50D in. (61.00 x 50.00 x 16.51 cm) | Weight: 28 lbs.
	E6M1	Size: 30.00H x 23.00W x 6.50D in. (76.20 x 58.12 x 16.51 cm) | Weight: 47 lbs.
	E8M1	Size: 36.00H x 30.00W x 6.50D in. (91.44 x 76.20 x 16.51 cm) | Weight: 70 lbs.
	E8M2	Size: 36.00H x 30.00W x 6.50D in. (91.44 x 76.20 x 16.51 cm) | Weight: 73 lbs.
Wiring Suffix	**T16-A | P16-A**	**T** = Tie Wrap **P** = Panduit **16** = Door count **A** = MR52 / EP1502
	T16-B | P16-B	**T** = Tie Wrap **P** = Panduit **16** = Door count **B** = MR52 / EP2500
	T16-C | P16-C	**T** = Tie Wrap **P** = Panduit **16** = Door count **C** = All MR52s
Regulatory Compliance	**UL / ULC**	UL294, ULC S319
	CSA / FCC	CSA C22.2 #107.1 | FCC Part 15, CSFM

Board Locations / Wiring Examples

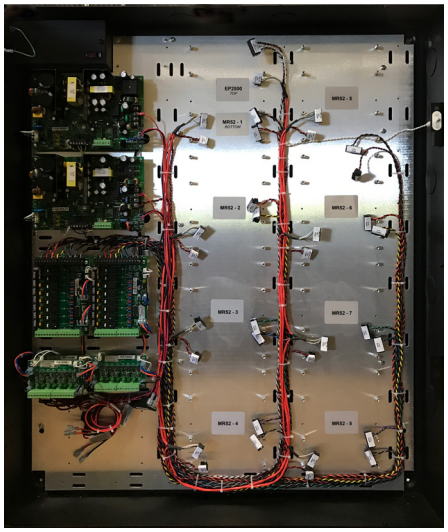


E6M1



E8M2

Tie wrap



Panduit

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